

# SEQUENCE LISTING

<110> Hayden, Michael R.  
Brooks-Wilson, Angela R.

<120> METHODS AND REAGENTS FOR MODULATING CHOLESTEROL LEVELS

<130> 760050-91

<140> 10/617,334

<141> 2003-07-10

<150> 09/526,193

<151> 2000-03-15

<150> 60/124,702

<151> 1999-03-15

<150> 60/138,048

<151> 1999-06-08

<150> 60/139,600

<151> 1999-06-17

<150> 60/151,977

<151> 1999-09-01

<160> 290

<170> PatentIn 3.0

<210> 1

<211> 2261

<212> PRT

<213> Homo sapiens

<400> 1

```
Met Ala Cys Trp Pro Gln Leu Arg Leu Leu Leu Trp Lys Asn Leu Thr
 1           5           10           15
Phe Arg Arg Arg Gln Thr Cys Gln Leu Leu Leu Glu Val Ala Trp Pro
      20           25           30
Leu Phe Ile Phe Leu Ile Leu Ile Ser Val Arg Leu Ser Tyr Pro Pro
      35           40           45
Tyr Glu Gln His Glu Cys His Phe Pro Asn Lys Ala Met Pro Ser Ala
      50           55           60
Gly Thr Leu Pro Trp Val Gln Gly Ile Ile Cys Asn Ala Asn Asn Pro
      65           70           75           80
Cys Phe Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn
      85           90           95
Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp Ala Arg Arg Leu
      100          105          110
Leu Leu Tyr Ser Gln Lys Asp Thr Ser Met Lys Asp Met Arg Lys Val
      115          120          125
Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser Asn Leu Lys Leu
```

130					135					140					
Gln	Asp	Phe	Leu	Val	Asp	Asn	Glu	Thr	Phe	Ser	Gly	Phe	Leu	Tyr	His
145					150					155					160
Asn	Leu	Ser	Leu	Pro	Lys	Ser	Thr	Val	Asp	Lys	Met	Leu	Arg	Ala	Asp
				165					170						175
Val	Ile	Leu	His	Lys	Val	Phe	Leu	Gln	Gly	Tyr	Gln	Leu	His	Leu	Thr
			180					185					190		
Ser	Leu	Cys	Asn	Gly	Ser	Lys	Ser	Glu	Glu	Met	Ile	Gln	Leu	Gly	Asp
		195					200					205			
Gln	Glu	Val	Ser	Glu	Leu	Cys	Gly	Leu	Pro	Arg	Glu	Lys	Leu	Ala	Ala
	210					215					220				
Ala	Glu	Arg	Val	Leu	Arg	Ser	Asn	Met	Asp	Ile	Leu	Lys	Pro	Ile	Leu
225					230					235					240
Arg	Thr	Leu	Asn	Ser	Thr	Ser	Pro	Phe	Pro	Ser	Lys	Glu	Leu	Ala	Glu
			245					250							255
Ala	Thr	Lys	Thr	Leu	Leu	His	Ser	Leu	Gly	Thr	Leu	Ala	Gln	Glu	Leu
			260					265							270
Phe	Ser	Met	Arg	Ser	Trp	Ser	Asp	Met	Arg	Gln	Glu	Val	Met	Phe	Leu
	275						280					285			
Thr	Asn	Val	Asn	Ser	Ser	Ser	Ser	Ser	Thr	Gln	Ile	Tyr	Gln	Ala	Val
	290				295						300				
Ser	Arg	Ile	Val	Cys	Gly	His	Pro	Glu	Gly	Gly	Gly	Leu	Lys	Ile	Lys
305				310					315						320
Ser	Leu	Asn	Trp	Tyr	Glu	Asp	Asn	Asn	Tyr	Lys	Ala	Leu	Phe	Gly	Gly
			325					330							335
Asn	Gly	Thr	Glu	Glu	Asp	Ala	Glu	Thr	Phe	Tyr	Asp	Asn	Ser	Thr	Thr
		340					345						350		
Pro	Tyr	Cys	Asn	Asp	Leu	Met	Lys	Asn	Leu	Glu	Ser	Ser	Pro	Leu	Ser
	355					360						365			
Arg	Ile	Ile	Trp	Lys	Ala	Leu	Lys	Pro	Leu	Leu	Val	Gly	Lys	Ile	Leu
	370					375					380				
Tyr	Thr	Pro	Asp	Thr	Pro	Ala	Thr	Arg	Gln	Val	Met	Ala	Glu	Val	Asn
385				390					395						400
Lys	Thr	Phe	Gln	Glu	Leu	Ala	Val	Phe	His	Asp	Leu	Glu	Gly	Met	Trp
			405					410							415
Glu	Glu	Leu	Ser	Pro	Lys	Ile	Trp	Thr	Phe	Met	Glu	Asn	Ser	Gln	Glu
		420					425						430		
Met	Asp	Leu	Val	Arg	Met	Leu	Leu	Asp	Ser	Arg	Asp	Asn	Asp	His	Phe
	435					440						445			
Trp	Glu	Gln	Gln	Leu	Asp	Gly	Leu	Asp	Trp	Thr	Ala	Gln	Asp	Ile	Val
	450				455						460				
Ala	Phe	Leu	Ala	Lys	His	Pro	Glu	Asp	Val	Gln	Ser	Ser	Asn	Gly	Ser
465				470					475						480
Val	Tyr	Thr	Trp	Arg	Glu	Ala	Phe	Asn	Glu	Thr	Asn	Gln	Ala	Ile	Arg
			485					490							495
Thr	Ile	Ser	Arg	Phe	Met	Glu	Cys	Val	Asn	Leu	Asn	Lys	Leu	Glu	Pro
		500						505					510		
Ile	Ala	Thr	Glu	Val	Trp	Leu	Ile	Asn	Lys	Ser	Met	Glu	Leu	Leu	Asp
	515						520						525		
Glu	Arg	Lys	Phe	Trp	Ala	Gly	Ile	Val	Phe	Thr	Gly	Ile	Thr	Pro	Gly
	530				535					540					
Ser	Ile	Glu	Leu	Pro	His	His	Val	Lys	Tyr	Lys	Ile	Arg	Met	Asp	Ile
545				550					555						560
Asp	Asn	Val	Glu	Arg	Thr	Asn	Lys	Ile	Lys	Asp	Gly	Tyr	Trp	Asp	Pro
			565					570							575
Gly	Pro	Arg	Ala	Asp	Pro	Phe	Glu	Asp	Met	Arg	Tyr	Val	Trp	Gly	Gly
		580					585						590		

Phe	Ala	Tyr	Leu	Gln	Asp	Val	Val	Glu	Gln	Ala	Ile	Ile	Arg	Val	Leu
	595						600				605				
Thr	Gly	Thr	Glu	Lys	Lys	Thr	Gly	Val	Tyr	Met	Gln	Gln	Met	Pro	Tyr
	610					615					620				
Pro	Cys	Tyr	Val	Asp	Asp	Ile	Phe	Leu	Arg	Val	Met	Ser	Arg	Ser	Met
625					630					635					640
Pro	Leu	Phe	Met	Thr	Leu	Ala	Trp	Ile	Tyr	Ser	Val	Ala	Val	Ile	Ile
				645						650					655
Lys	Gly	Ile	Val	Tyr	Glu	Lys	Glu	Ala	Arg	Leu	Lys	Glu	Thr	Met	Arg
			660					665						670	
Ile	Met	Gly	Leu	Asp	Asn	Ser	Ile	Leu	Trp	Phe	Ser	Trp	Phe	Ile	Ser
		675					680						685		
Ser	Leu	Ile	Pro	Leu	Leu	Val	Ser	Ala	Gly	Leu	Leu	Val	Val	Ile	Leu
	690					695					700				
Lys	Leu	Gly	Asn	Leu	Leu	Pro	Tyr	Ser	Asp	Pro	Ser	Val	Val	Phe	Val
705					710					715					720
Phe	Leu	Ser	Val	Phe	Ala	Val	Val	Thr	Ile	Leu	Gln	Cys	Phe	Leu	Ile
				725					730						735
Ser	Thr	Leu	Phe	Ser	Arg	Ala	Asn	Leu	Ala	Ala	Ala	Cys	Gly	Gly	Ile
			740					745						750	
Ile	Tyr	Phe	Thr	Leu	Tyr	Leu	Pro	Tyr	Val	Leu	Cys	Val	Ala	Trp	Gln
		755					760						765		
Asp	Tyr	Val	Gly	Phe	Thr	Leu	Lys	Ile	Phe	Ala	Ser	Leu	Leu	Ser	Pro
	770					775					780				
Val	Ala	Phe	Gly	Phe	Gly	Cys	Glu	Tyr	Phe	Ala	Leu	Phe	Glu	Glu	Gln
785					790					795					800
Gly	Ile	Gly	Val	Gln	Trp	Asp	Asn	Leu	Phe	Glu	Ser	Pro	Val	Glu	Glu
				805						810					815
Asp	Gly	Phe	Asn	Leu	Thr	Thr	Ser	Val	Ser	Met	Met	Leu	Phe	Asp	Thr
			820					825						830	
Phe	Leu	Tyr	Gly	Val	Met	Thr	Trp	Tyr	Ile	Glu	Ala	Val	Phe	Pro	Gly
		835					840						845		
Gln	Tyr	Gly	Ile	Pro	Arg	Pro	Trp	Tyr	Phe	Pro	Cys	Thr	Lys	Ser	Tyr
	850					855					860				
Trp	Phe	Gly	Glu	Glu	Ser	Asp	Glu	Lys	Ser	His	Pro	Gly	Ser	Asn	Gln
865					870					875					880
Lys	Arg	Ile	Ser	Glu	Ile	Cys	Met	Glu	Glu	Glu	Pro	Thr	His	Leu	Lys
				885						890					895
Leu	Gly	Val	Ser	Ile	Gln	Asn	Leu	Val	Lys	Val	Tyr	Arg	Asp	Gly	Met
			900					905						910	
Lys	Val	Ala	Val	Asp	Gly	Leu	Ala	Leu	Asn	Phe	Tyr	Glu	Gly	Gln	Ile
		915					920							925	
Thr	Ser	Phe	Leu	Gly	His	Asn	Gly	Ala	Gly	Lys	Thr	Thr	Thr	Met	Ser
	930					935								940	
Ile	Leu	Thr	Gly	Leu	Phe	Pro	Pro	Thr	Ser	Gly	Thr	Ala	Tyr	Ile	Leu
945					950					955					960
Gly	Lys	Asp	Ile	Arg	Ser	Glu	Met	Ser	Thr	Ile	Arg	Gln	Asn	Leu	Gly
				965						970					975
Val	Cys	Pro	Gln	His	Asn	Val	Leu	Phe	Asp	Met	Leu	Thr	Val	Glu	Glu
			980					985						990	
His	Ile	Trp	Phe	Tyr	Ala	Arg	Leu	Lys	Gly	Leu	Ser	Glu	Lys	His	Val
		995					1000							1005	
Lys	Ala	Glu	Met	Glu	Gln	Met	Ala	Leu	Asp	Val	Gly	Leu	Pro	Ser	Ser
	1010					1015					1020				
Lys	Leu	Lys	Ser	Lys	Thr	Ser	Gln	Leu	Ser	Gly	Gly	Met	Gln	Arg	Lys
1025					1030					1035					1040
Leu	Ser	Val	Ala	Leu	Ala	Phe	Val	Gly	Gly	Ser	Lys	Val	Val	Ile	Leu



Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala Lys Ser  
 1505 1510 1515 1520  
 Leu Lys Asn Lys Ile Trp Val Asn Glu Phe Arg Tyr Gly Gly Phe Ser  
 1525 1530 1535  
 Leu Gly Val Ser Asn Thr Gln Ala Leu Pro Pro Ser Gln Glu Val Asn  
 1540 1545 1550  
 Asp Ala Ile Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys Asp Ser  
 1555 1560 1565  
 Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr Gly Leu  
 1570 1575 1580  
 Asp Thr Arg Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly Trp His  
 1585 1590 1595 1600  
 Ala Ile Ser Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu Arg Ala  
 1605 1610 1615  
 Asn Leu Gln Lys Gly Glu Asn Pro Ser His Tyr Gly Ile Thr Ala Phe  
 1620 1625 1630  
 Asn His Pro Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val Ala Leu  
 1635 1640 1645  
 Met Thr Thr Ser Val Asp Val Leu Val Ser Ile Cys Val Ile Phe Ala  
 1650 1655 1660  
 Met Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln Glu Arg  
 1665 1670 1675 1680  
 Val Ser Lys Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys Pro Val  
 1685 1690 1695  
 Ile Tyr Trp Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr Val Val  
 1700 1705 1710  
 Pro Ala Thr Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln Lys Ser  
 1715 1720 1725  
 Tyr Val Ser Ser Thr Asn Leu Pro Val Leu Ala Leu Leu Leu Leu  
 1730 1735 1740  
 Tyr Gly Trp Ser Ile Thr Pro Leu Met Tyr Pro Ala Ser Phe Val Phe  
 1745 1750 1755 1760  
 Lys Ile Pro Ser Thr Ala Tyr Val Val Leu Thr Ser Val Asn Leu Phe  
 1765 1770 1775  
 Ile Gly Ile Asn Gly Ser Val Ala Thr Phe Val Leu Glu Leu Phe Thr  
 1780 1785 1790  
 Asp Asn Lys Leu Asn Asn Ile Asn Asp Ile Leu Lys Ser Val Phe Leu  
 1795 1800 1805  
 Ile Phe Pro His Phe Cys Leu Gly Arg Gly Leu Ile Asp Met Val Lys  
 1810 1815 1820  
 Asn Gln Ala Met Ala Asp Ala Leu Glu Arg Phe Gly Glu Asn Arg Phe  
 1825 1830 1835 1840  
 Val Ser Pro Leu Ser Trp Asp Leu Val Gly Arg Asn Leu Phe Ala Met  
 1845 1850 1855  
 Ala Val Glu Gly Val Val Phe Phe Leu Ile Thr Val Leu Ile Gln Tyr  
 1860 1865 1870  
 Arg Phe Phe Ile Arg Pro Arg Pro Val Asn Ala Lys Leu Ser Pro Leu  
 1875 1880 1885  
 Asn Asp Glu Asp Glu Asp Val Arg Arg Glu Arg Gln Arg Ile Leu Asp  
 1890 1895 1900  
 Gly Gly Gly Gln Asn Asp Ile Leu Glu Ile Lys Glu Leu Thr Lys Ile  
 1905 1910 1915 1920  
 Tyr Arg Arg Lys Arg Lys Pro Ala Val Asp Arg Ile Cys Val Gly Ile  
 1925 1930 1935  
 Pro Pro Gly Glu Cys Phe Gly Leu Leu Gly Val Asn Gly Ala Gly Lys  
 1940 1945 1950  
 Ser Ser Thr Phe Lys Met Leu Thr Gly Asp Thr Thr Val Thr Arg Gly

1955	1960	1965
Asp Ala Phe Leu Asn Lys	Asn Ser Ile Leu Ser	Asn Ile His Glu Val
1970	1975	1980
His Gln Asn Met Gly Tyr Cys	Pro Gln Phe Asp Ala Ile Thr	Glu Leu
1985	1990	1995
Leu Thr Gly Arg Glu His Val	Glu Phe Phe Ala Leu Leu Arg	Gly Val
2005	2010	2015
Pro Glu Lys Glu Val Gly Lys	Val Gly Glu Trp Ala Ile Arg	Lys Leu
2020	2025	2030
Gly Leu Val Lys Tyr Gly Glu	Lys Tyr Ala Gly Asn Tyr Ser	Gly Gly
2035	2040	2045
Asn Lys Arg Lys Leu Ser Thr	Ala Met Ala Leu Ile Gly	Gly Pro Pro
2050	2055	2060
Val Val Phe Leu Asp Glu Pro	Thr Thr Gly Met Asp Pro	Lys Ala Arg
2065	2070	2075
Arg Phe Leu Trp Asn Cys Ala	Leu Ser Val Val Lys Glu	Gly Arg Ser
2085	2090	2095
Val Val Leu Thr Ser His Ser	Met Glu Glu Cys Glu Ala	Leu Cys Thr
2100	2105	2110
Arg Met Ala Ile Met Val Asn	Gly Arg Phe Arg Cys Leu	Gly Ser Val
2115	2120	2125
Gln His Leu Lys Asn Arg Phe	Gly Asp Gly Tyr Thr Ile	Val Val Arg
2130	2135	2140
Ile Ala Gly Ser Asn Pro Asp	Leu Lys Pro Val Gln Asp	Phe Phe Gly
2145	2150	2155
Leu Ala Phe Pro Gly Ser Val	Leu Lys Glu Lys His Arg	Asn Met Leu
2165	2170	2175
Gln Tyr Gln Leu Pro Ser Ser	Leu Ser Ser Leu Ala Arg	Ile Phe Ser
2180	2185	2190
Ile Leu Ser Gln Ser Lys Lys	Arg Leu His Ile Glu Asp	Tyr Ser Val
2195	2200	2205
Ser Gln Thr Thr Leu Asp Gln	Val Phe Val Asn Phe Ala	Lys Asp Gln
2210	2215	2220
Ser Asp Asp Asp His Leu Lys	Asp Leu Ser Leu His Lys	Asn Gln Thr
2225	2230	2235
Val Val Asp Val Ala Val Leu	Thr Ser Phe Leu Gln Asp	Glu Lys Val
2245	2250	2255
Lys Glu Ser Tyr Val		
2260		

<210> 2

<211> 7860

<212> DNA

<213> Homo sapiens

<400> 2

```

gtccctgctg tgagctctgg ccgctgcctt ccagggtccc cgagccacac gctgggggtg 60
ctggctgagg gaacatggct tggtagcctc agctgagggt gctgctgtgg aagaacctca 120
ctttcagaag aagacaaaca tgtcagctgt tactggaagt ggctggcct ctatttatct 180
tcctgatcct gatctctgtt cggctgagct acccacccta tgaacaacat gaatgccatt 240
ttccaaataa agccatgccc tctgcaggaa cacttccttg ggttcagggg attatctgta 300
atgccaacaa cccctgtttc cgttaccgga ctccctggga ggctcccgga gttgttgga 360
actttaacaa atccattgtg gctcgctgt tctcagatgc tcggaggctt cttttataca 420
gccagaaaga caccagcatg aaggacatgc gcaaagtctt gagaacatta cagcagatca 480
agaaatccag ctcaaacttg aagcttcaag atttctgtgt ggacaatgaa accttctctg 540
ggttcctgta tcacaacctc tctctcccaa agtctactgt ggacaagatg ctgagggctg 600
atgtcattct ccacaaggta tttttgcaag gctaccagtt acatttgaca agtctgtgca 660
atggatcaaa atcagaagag atgattcaac ttggtgacca agaagtttct gagctttgtg 720

```

gcctaccaag	ggagaaactg	gctgcagcag	agcgagtact	tcgttccaac	atggacatcc	780
tgaagccaat	cctgagaaca	ctaaactcta	catctccctt	cccagagcaag	gagctggctg	840
aagccacaaa	aacattgctg	catagtcttg	ggactctggc	ccaggagctg	ttcagcatga	900
gaagctggag	tgacatgcga	caggaggtga	tgtttctgac	caatgtgaac	agctccagct	960
cctccacca	aatctaccag	gctgtgtctc	gtattgtctg	cgggcatccc	gagggagggg	1020
ggctgaagat	caagtctctc	aactgggtatg	aggacaacaa	ctacaaagcc	ctctttggag	1080
gcaatggcac	tgaggaagat	gctgaaacct	tctatgacaa	ctctacaact	ccttactgca	1140
atgatttgat	gaagaatttg	gagtctagtc	ctctttcccg	cattatctgg	aaagctctga	1200
agccgctgct	cgttgggaag	atcctgtata	cacctgacac	tccagccaca	aggcaggtca	1260
tggctgaggt	gaacaagacc	ttccaggaac	tggctgtgtt	ccatgatctg	gaaggcatgt	1320
gggaggaact	cagccccaag	atctggacct	tcatggagaa	cagccaagaa	atggaccttg	1380
tccggatgct	gttggacagc	agggacaatg	accacttttg	ggaacagcag	ttggatggct	1440
tagattggac	agcccaagac	atcgtggcgt	ttttggccaa	gcacccagag	gatgtccagt	1500
ccagtaatgg	ttctgtgtac	acctggagag	aagctttcaa	cgagactaac	caggcaatcc	1560
ggaccatata	tcgcttcatg	gagtgtgtca	acctgaacaa	gctagaacct	atagcaacag	1620
aagtctggct	catcaacaag	tccatggagc	tgctggatga	gaggaagttc	tgggctggta	1680
ttgtgttcac	tggattact	ccaggcagca	ttgagctgcc	ccatcatgtc	aagtacaaga	1740
tccgaatgga	cattgacaat	gtggagagga	caaataaaat	caaggatggg	tactgggacc	1800
ctggtcctcg	agctgacccc	tttgaggaca	tgcggtacgt	ctgggggggc	ttcgccact	1860
tgcaggatgt	ggtggagcag	gcaatcatca	gggtgctgac	gggcaccgag	aagaaaactg	1920
gtgtctatat	gcaacagatg	ccctatccct	gttacgttga	tgacatcttt	ctgcgggtga	1980
tgagccggtc	aatgcccctc	ttcatgacgc	tggcctggat	ttactcagtg	gctgtgatca	2040
tcaagggcat	cgtgtatgag	aaggaggcac	ggctgaaaga	gaccatgcgg	atcatgggcc	2100
tggacaacag	catcctctgg	tttagctggg	tcattagtag	cctcattcct	cttcttgtga	2160
gcgctggcct	gctagtgggtc	atcctgaagt	taggaaacct	gctgccctac	agtgatccca	2220
gcgtggtgtt	tgtcttcctg	tccgtgtttg	ctgtgggtgac	aatcctgcag	tgcttcctga	2280
ttagcacact	cttctccaga	gccaacctgg	cagcagcctg	tgggggcatc	atctacttca	2340
cgctgtacct	gccctacgtc	ctgtgtgtgg	catggcagga	ctacgtgggc	ttcacactca	2400
agatcttcgc	tagcctgctg	tctcctgtgg	cttttggggtt	tggctgtgag	tactttgccc	2460
tttttgagga	gcagggcatt	ggagtgcagt	gggacaacct	gtttgagagt	cctgtggagg	2520
aagatggctt	caatctcacc	acttcgggtc	ccatgatgct	gtttgacacc	ttcctctatg	2580
gggtgatgac	ctgggtacatt	gaggctgtct	ttccaggcca	gtacgggaatt	cccaggccct	2640
gggtattttcc	ttgcaccaag	tcctactggg	ttggcgagga	aagtgatgag	aagagccacc	2700
ctggttccaa	ccagaagaga	atatcagaaa	tctgcatgga	ggaggaacct	accacttga	2760
agctgggcgt	gtccattcag	aacctggtaa	aagtctaccg	agatgggatg	aaggtggctg	2820
tcgatggcct	ggcactgaat	ttttatgagg	gccagatcac	ctccttcctg	ggccacaatg	2880
gagcggggaa	gacgaccacc	atgtcaatcc	tgaccgggtt	gttccccccg	acctcgggca	2940
ccgcctacat	cctgggaaaa	gacattcgct	ctgagatgag	caccatccgg	cagaacctgg	3000
gggtctgtcc	ccagcataac	gtgctgtttg	acatgctgac	tgtcgaagaa	cacatctggg	3060
tctatgcccg	cttgaaaggg	ctctctgaga	agcacgtgaa	ggcgagatg	gagcagatgg	3120
ccctggatgt	tggtttgcca	tcaagcaagc	tgaaaagcaa	aacaagccag	ctgtcagggtg	3180
gaatgcagag	aaagctatct	gtggccttgg	cctttgtcgg	gggatctaag	gttgtcattc	3240
tggatgaacc	cacagctggg	gtggacctt	actcccgcag	gggaatatgg	gagctgctgc	3300
tgaataaccg	acaaggccgc	accattattc	tctctacaca	ccacatggat	gaagcggacg	3360
tcttggggga	caggattgcc	atcatctccc	atgggaagct	gtgctgtgtg	ggctcctccc	3420
tgtttctgaa	gaaccagctg	ggaacaggct	actacctgac	cttgggtcaag	aaagatgtgg	3480
aatcctccct	cagttcctgc	agaaacagta	gtagcactgt	gtcataacctg	aaaaaggagg	3540
acagtgtttc	tcagagcagt	tctgatgctg	gcctggggcag	cgaccatgag	agtgcacacg	3600
tgaccatcga	tgtctctgct	atctccaacc	tcacaggaa	gcatgtgtct	gaagcccggc	3660
tgggtggaaga	catagggcat	gagctgacct	atgtgctgcc	atatgaagct	gctaaggagg	3720
gagcctttgt	ggaactcttt	catgagattg	atgaccggct	ctcagacctg	ggcattttcta	3780
gttatggcat	ctcagagacg	accctggaag	aaatatccct	caagggtggc	gaagagagtg	3840
gggtggatgc	tgagacctca	gatggtagct	tgccagcaag	acgaaacagg	cgggccttcg	3900
gggacaagca	gagctgtctt	cgcccgttca	ctgaagatga	tgctgctgat	ccaaatgatt	3960
ctgacataga	cccagaatcc	agagagacag	acttgctcag	tgggatggat	ggcaaagggg	4020
cctaccaggt	gaaaggctgg	aaacttacac	agcaacagtt	tgtggccctt	ttgtggaaga	4080
gactgcta	tgccagacgg	agtcgggaaag	gatttttttg	tcagattgtc	ttgccagctg	4140

tgtttgtctg	cattgccctt	gtgttcagcc	tgatcgtgcc	accctttggc	aagtacccca	4200
gcctggaact	tcagccctgg	atgtacaacg	aacagtacac	at ttgtcagc	aatgatgctc	4260
ctgaggacac	gggaaccctg	gaactcttaa	acgccctcac	caaagaccct	ggcttcggga	4320
cccgtgtgat	ggaaggaaac	ccaatcccag	acacgccctg	ccaggcaggg	gaggaagagt	4380
ggaccactgc	cccagttccc	cagaccatca	tggacctctt	ccagaatggg	aactggacaa	4440
tgcagaaccc	ttcacctgca	tgccagtgtg	gcagcgacaa	aatcaagaag	atgctgcctg	4500
tgtgtccccc	aggggagagg	gggctgcctc	ctccacaaag	aaaacaaaac	actgcagata	4560
tccttcagga	cctgacagga	agaaacattt	cggattatct	ggtgaagacg	tatgtgcaga	4620
tcatagccaa	aagcttaaa	aacaagatct	gggtgaatga	gtttaggtat	ggcggctttt	4680
ccctgggtgt	cagtaatact	caagcacttc	ctccagtgca	agaagttaat	gatgccatca	4740
aacaaatgaa	gaaacaccta	aagctggcca	aggacagttc	tgcagatcga	tttctcaaca	4800
gcttggaag	at ttatgaca	ggactggaca	ccagaaataa	tgtcaagggtg	tggttcaata	4860
acaagggctg	gcatgcaatc	agctctttcc	tgaatgtcat	caacaatgcc	attctccggg	4920
ccaacctgca	aaagggagag	aacctagacc	attatggaat	tactgctttc	aatcatcccc	4980
tgaatctcac	caagcagcag	ctctcagagg	tggctctgat	gaccacatca	gtggatgtcc	5040
ttgtgtccat	ctgtgtcatc	tttgcaatgt	ccttcgtccc	agccagcttt	gtcgtattcc	5100
tgatccagga	gcgggtcagc	aaagcaaaac	acctgcagtt	catcagtggg	gtgaagcctg	5160
tcactactctg	gctctcta	tttgtctggg	atatgtgcaa	ttacgttgtc	cctgccacac	5220
tggtcattat	catcttcac	tgtctccagc	agaagtccta	tgtgtcctcc	accaatctgc	5280
ctgtgctagc	ccttctactt	ttgtgtgatg	gggtgtcaat	cacacctctc	atgtacccag	5340
cctcctttgt	gttcaagatc	cccagcacag	cctatgtggg	gctcaccagc	gtgaacctct	5400
tcattggcat	taatggcagc	gtggccacct	ttgtgctgga	gctgttcacc	gacaataagc	5460
tgaataatat	caatgatatc	ctgaagtccg	tgttcttgat	cttcccacat	ttttgcctgg	5520
gacgagggct	catcgacatg	gtgaaaaacc	aggcaatggc	tgatgcctctg	gaaagggttg	5580
gggagaatcg	ctttgtgtca	ccattatctt	gggacttggt	gggacgaaac	ctcttcgcca	5640
tggccgtgga	aggggtgggtg	ttcttcctca	ttactgttct	gatccagtac	agattcttca	5700
tcaggcccag	acctgtaaat	gcaaagctat	ctcctctgaa	tgatgaagat	gaagatgtga	5760
ggcgggaaag	acagagaatt	cttgatgggtg	gaggccagaa	tgacatctta	gaaatcaagg	5820
agttgacgaa	gatatataga	aggaagcgga	agcctgctgt	tgacaggatt	tgcgtgggca	5880
ttcctcctgg	tgagtgtctt	gggtcctctg	gagttaatgg	ggctggaaaa	tcatacaactt	5940
tcaagatggt	aacaggagat	accactgtta	ccagaggaga	tgttttcctt	aacaaaaata	6000
gtatcttatc	aaacatccat	gaagtacatc	agaacatggg	ctactgccct	cagtttgatg	6060
ccatcacaga	gctgttgact	gggagagaa	acgtggagtt	ctttgccctt	ttgagaggag	6120
tcccagagaa	agaagttggc	aagggtgggtg	agtgggcgat	tcggaaactg	ggcctcgtga	6180
agtatggaga	aaaatatgct	ggtaactata	gtggaggcaa	caaacgcaag	ctctctacag	6240
ccatggcttt	gatcggcggg	cctcctgtgg	tgtttctgga	tgaaccacc	acaggcatgg	6300
atcccaaagc	ccggcgggttc	ttgtggaatt	gtgccctaag	tgttgtcaag	gaggggagat	6360
cagtagtgct	tacatctcat	agtatggaag	aatgtgaagc	tctttgcact	aggatggcaa	6420
tcatggtcaa	tggagggttc	aggtgccttg	gcagtgtcca	gcactataaa	aatagggttg	6480
gagatggtta	tacaatagtt	gtacgaatag	caggggtccaa	cccggacctg	aagcctgtcc	6540
aggattttctt	tggacttgca	tttctctgga	gtgttctaaa	agagaaacac	cggaacatgc	6600
tacaatacca	gcttccatct	tcattatctt	ctctggccag	gatattcagc	atcctctccc	6660
agagcaaaaa	gcgactccac	atagaagact	actctgtttc	tcagacaaca	cttgaccaag	6720
tatttgtgaa	ctttgccaa	gaccaaagtg	atgatgacca	cttaaaagac	ctctcattac	6780
acaaaaacca	gacagtagtg	gacgttgca	ttctcacatc	ttttctacag	gatgagaaag	6840
tgaagaaaag	ctatgtatga	agaatcctgt	tcatacgggg	tggctgaaag	taaagaggaa	6900
ctagactttc	ctttgcacca	tgtgaagtgt	tgtggagaaa	agagccagaa	gttgatgtgg	6960
gaagaagtaa	actggatact	gtactgatac	tattcaatgc	aatgcaattc	aatgcaatga	7020
aaacaaaatt	ccattacagg	ggcagtgcc	ttgtagccta	tgtcttgat	ggctctcaag	7080
tgaagactt	gaatttagtt	ttttacctat	acctatgtga	aactctatta	tggaaaccaa	7140
tggacatatg	ggtttgaact	cacacttttt	tttttttttt	tgttctctgtg	tattctcatt	7200
ggggttgcaa	caataattca	tcaagtaatc	atggccagcg	attattgatc	aaaatcaaaa	7260
ggtaatgcac	atcctcattc	actaagccat	gccatgcccc	ggagactggg	ttcccgggtga	7320
cacatccatt	gctggcaatg	agtgtgccag	agttattagt	gccaagtttt	tcagaaagtt	7380
tgaagacca	tgggtgtgtca	tgtctacttt	tgtgaaagct	gctctgctca	gagtctatca	7440
acattgaata	tcagttgaca	gaatgggtgcc	atgcgtgggt	aacatcctgc	tttgattccc	7500
tctgataaagc	tgttctgggtg	gcagtaacat	gcaacaaaaa	tgtgggtgtc	tccaggcacg	7560



ggaaacttgg ttccattggt atattgtcct atgcttcgag ccatgggtct acaggggtcat 7620  
 ccttatgaga ctcttaaata tacttagatc ctggtaagag gcaaagaatc aacagccaaa 7680  
 ctgctggggc tgcaactgct gaagccaggg catgggatta aagagattgt gcgttcaaac 7740  
 ctagggaagc ctgtgcccac ttgtcctgac tgtctgctaa catggtacac tgcattctcaa 7800  
 gatgtttatc tgacacaagt gtattatttc tggctttttg aattaatcta gaaaatgaaa 7860

<210> 3  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 3  
 gcagagggca tggctttatt tg 22

<210> 4  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 4  
 ctgccaggca ggggaggaag agtg 24

<210> 5  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 5  
 gaaagtgact cacttgtgga gga 23

<210> 6  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 aaaggggctt ggtaagggtg 20

<210> 7  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 catgcacatg cacacacata 20

<210> 8  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ctttctgcgg gtgatgagcc ggtcaat 27

<210> 9  
 <211> 20

<212> DNA  
 <213> Homo sapiens  
  
 <400> 9  
 ccttagcccg tggtgagcta 20  
  
 <210> 10  
 <211> 26  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 10  
 cctgtaaatag caaagctatc tcctct 26  
  
 <210> 11  
 <211> 26  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 11  
 cgtcaactcc ttgatttcta agatgt 26  
  
 <210> 12  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 12  
 gggttcccag ggttcagtat 20  
  
 <210> 13  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 13  
 gatcaggaat tcaagcacca a 21  
  
 <210> 14  
 <211> 10545  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(10545)  
 <223> n = a, t, c, or g  
  
 <400> 14  
 acctcttata gaatgataga attcctctgg aatgattgga taacttcatt tcatccttga 60  
 cttttacctt ggaggatttc ttaccctttt tggcttctca aatttgacta ttaaaatggt 120  
 gcctttaaaa ataggaacac agtttcaggg gggagtacca gcccatgacc cttctgcaag 180  
 gccccctaac tcaaggtagt ttccctggaa ctgtgggttta tggaatgttt caggagtgtg 240  
 aggagggtata atttaaggct gtccctagcaa ggataccctt aaggatagag ggcccagtag 300  
 catctggagg ccagaaaagt taaactgagg cagtcagatt agcttcaggc tcaattaagc 360  
 tgatgggtca gcctgggaga aattgcagga tgactctcaa tatccctcc cccccccaca 420  
 gcagccacga tctgtctgtc tttaatcatg ggtgcagtga acctgttctt tccagggtgc 480

ttggccttca	gtaaccttgt	taggcttgtc	cctgaacgtg	gctaccgatc	caaagacaca	540
tgatcagaga	ggcaattaga	gaacagacct	tttccaaagc	aagcatgttc	tggtgggctt	600
agaagtttca	tgctctaata	ttataggacc	ctgtgcatct	ctctggagat	gaggcacatg	660
agtcataatc	gtgattcttg	cttttgtgtc	aacatctcat	gaataggcaa	tcagagcttt	720
ggcaccaatg	tattttcagt	tcataatctga	tgtagttaaa	tccacctcct	gctttgtagt	780
ttactggcaa	gctgtttttg	atataagaca	tctagaacac	tgtaaatata	taacattttt	840
atattgtctat	tatacctcaa	ttacgaaaaa	gacatctaga	agcaacctca	tcaagagaga	900
tactgaggcc	gggcatggta	gctcacactt	gcaatcccat	tactttggga	ggctgaggca	960
ggtagatcac	ttgaggtcaa	gagtttgaaa	ccagcctggc	caacatgttg	aaaccctgtc	1020
tctattaaaa	atacaaaaaa	gttagctggg	cttggtgggtg	ggcacctgta	atcccagcta	1080
ctccggaggc	tgaggcagga	gaatcacttg	aacctgggag	gcagaggttg	cagtgaagctg	1140
agatcacacc	actgcactcc	aacctgggca	ccagagttag	attacatcta	aaaaataaaa	1200
taaagtaata	aaaaagagag	atattgatag	ctgttggttg	aaatttcaac	ttccatctca	1260
cttctggtaa	ctttttggaa	gtttgttgaa	caaagtggaa	tacacgcaca	tacacacaca	1320
cacatactct	cttgtttgtt	taaggtttaa	tgaaatagct	gtcatataat	cactgttttt	1380
gaaagaggag	aattagttgc	tatctgtaca	ttttgggtat	gtgaactatt	tggatagaac	1440
tctgagaaat	gcattcagaa	caacaaacaa	aatcatagga	gaaatagcta	agtggggaag	1500
ggcatataag	agttgttgaa	aaagttattt	cttgagaaac	cagctctaata	gctaggcaag	1560
tcacttgctt	tgggggaggc	ctcagcttct	ctgtctataa	gattgcagca	ggggtgtagt	1620
gggaatgagt	cttcaacatt	ccaagagatt	ttatctacta	atacgacagt	caaattggagc	1680
atgactttgt	ggaagcctct	cctcttccac	ccagaggggc	caatttctct	gtcccagtga	1740
gatgttgaca	cttgtatgat	ccctgcttgg	agacttccct	cttctggaac	ctgccctggc	1800
tcaggcatga	gggctgactg	tcacccttcg	ataggagccc	agcactaaag	ctcatgtgtt	1860
ggcagtggtc	ttgcgggaag	gaaaaagacc	agccagccca	tttggtactg	cacaagcaaa	1920
cagcttctgg	tagctgtaca	gatacatgca	ctttctttcc	tcactgtgtt	tccatagaca	1980
gatttagtgc	tgtagaagag	tagagggcag	tcacgggaag	gagttcctgt	ttttcttttg	2040
gctatgccaa	atggggaaaa	atcctcctat	cttgtctttt	tagtgtcatc	ctctctcccc	2100
ttttcttctt	ctttataatt	ctcatctctc	atctctcctg	gaaatgtgca	tgtcaagttc	2160
aaaagggcac	aatgttttgg	tgaggaagag	gtgggagaa	acgtgccagg	tgctaactag	2220
ggtcacatc	tcccccttca	cagccagctt	cctgtgaatg	tgtgtgtgtg	tgtgtgtgtg	2280
tgtgtgtgtg	tgtgtgtgtg	tgtgtatttc	ttttgccagc	atcactgaat	ctgtctgctg	2340
tctgggtattc	caggtttttg	tttagggaaa	agtaaaagta	attttataat	ccagctgtc	2400
atttaagcca	cccctttgtg	ggtagcatat	ggtccactct	ctcagttcat	tgtcctaaag	2460
atgcttcac	agaaaggaat	aacttccacc	ccgttactct	ctgtccccct	actctgcttt	2520
atttttcttc	gtcaatccta	ccaccaccac	ccactgtttg	aacaaccacc	tattattttg	2580
ctgtttccca	tccctggtag	aataggagcc	ccatgaatga	aggaactttg	cttctgttgt	2640
tcaccactga	atctctaagg	tatggaacac	acctggcatg	tgataggcac	tcgataaata	2700
tttggtgtgg	ctcatgggca	ccttgcagag	ttaaggctgc	agttgtttgt	ggaatttata	2760
agtggtaatg	aatatttatc	tactattcct	cttccaaggc	gatcacacaa	taatcaggct	2820
ttacactatc	cagttcttag	gtcttccaag	ttatgacttg	tgaggtagtg	taattatgat	2880
aatagaaggc	agtttatttg	gttcagattt	attgatgtgt	aatttaccac	agtaagactt	2940
cccctttaca	aaagtatgat	gagttttgac	aaatggatac	acatgtgtat	ctaccactgc	3000
catgctcctt	ttcagttctg	cgtccccctc	acccatgacc	actgggtcac	actgcagtga	3060
tttctgtccc	cttcatttca	ccttttccag	aatgtcatat	aaatggaatc	atgcagtatg	3120
tagttttttg	tgtctggctt	atttttctta	gcattaggct	tttgggattc	atccaggttg	3180
tcgcatgtaa	cagtagctta	ttccttttta	tggctgagta	agtgtcccag	ttttatttat	3240
atatttat	atgaggaggt	gtctcactct	gtcaccagag	ctggagtgcg	gtagcgcgat	3300
ctcagctcac	tgcaacctcc	gcctcccagg	ttcaagcaat	tctcctgcct	cctgagttagc	3360
tgggattaca	ggcaccacc	gccacgcccc	actaattttt	atatttttag	tagagatggg	3420
gtttcaccat	gttggccagg	ctgatctcaa	actcttgacc	tcagggtgatc	cgccacacct	3480
tggctcccaa	agtgttagga	ttacaggcat	gagccactgt	gcccagcccc	agttttattt	3540
attcaccagt	tgatgggtct	ttcgacaact	aattgtttcc	agtttttggc	tattctgtat	3600
aaggcttcta	taaataattca	caaataccta	ggatgggatg	actgggtcat	ataatagtac	3660
tgtataacct	tagcagaaac	tgtcaaacta	ttttccaaag	tggctcttcc	attttacaat	3720
tccacagtgt	attgagtccc	agtgtctcca	tacacatgct	agcactttta	atatttaatt	3780
tagtgggtat	gtaatgatat	ctcattgtgg	ttttaatttg	catttctctg	cagctaataga	3840
tgagtgtttc	tgcttatttg	ggaagggttt	aatttagcag	tctgttgtat	tctgtagata	3900

ttaataactt	caaaatatca	gtggcatttg	cagttaaaat	ttccttaaaa	aattggccaa	3960
aggtttccag	cagtcacttc	tgccatgccc	aaactgtatg	aaacaaggct	gaggtgtgga	4020
gattgtcaca	ttttggcaag	gagtgatcca	cttgggtgac	tgatgagacc	cagagagcgt	4080
acgcctcggg	cttgaggggtg	aggacgggcg	ggaagtcgac	tgcatggccc	tgctggcctt	4140
gggaggctgc	ccagtcctta	gctaaagctg	gcagttatgg	gaaacagact	tagattctat	4200
tacgtttttc	aggatgtccc	aggagtcacc	tgggaagctc	agcagtcctt	tgtgactttc	4260
aagcatatgg	tagaagctgc	tgaacacaga	gctccctctt	tggggataat	ttgccc aaat	4320
catttaatca	ggcttgagaa	atgagttacc	acagggtccag	gagtgctgcc	acccttgaat	4380
tctgacaccc	tattttctct	atccgtctct	taattaatta	agcagacatc	cccaagtgtc	4440
tacgacaagc	caggaccctt	ttgcatacta	aggaaaacag	ggatgaagga	aacagaaatg	4500
gtctctgctc	tgactcagaa	ggtagaaatc	ctctttccca	gccaaagtctt	cctagggagc	4560
acgtaggaag	ggctctgaac	ccacgtgtca	gttgacgggg	aggatatcag	gaaaggacat	4620
tgaagaagtg	gagacctaag	tttgagacct	aggcattagc	caggctagca	gtgcttgaaa	4680
aagtgtctta	ggacaagaga	actcaccagt	gaagtc ccag	tggtaggaga	gcgtgcagca	4740
tattctgagc	ctgtatacac	atctccaggg	cattgcttag	cagggtgggga	gtggcaagag	4800
agtaggctgg	agtcacagaa	gggaggccag	gtagaccttg	gtgagcactg	gactctatgt	4860
tcagggtgtg	aggagctggc	aaaaggtttt	aagtcggggga	gaggcatgtt	cagatatttg	4920
gtctagctga	gtaacttttg	gtgctctgtg	acaaatgggt	gggagaccag	tgagggtggca	4980
gttgcggtca	tctaggagca	ggatcagagt	ggcctattga	ctgggatgac	tgtgaagtgg	5040
gaccccttcc	agccagtaac	tggaaatgtg	tatgagggca	gaagtgagtg	tactgcattt	5100
gaaacattga	gaaatctagt	acatagtagt	gtctctttta	tatctttttt	tttttttttt	5160
ttgatttttg	tttgtttgtt	cactaacttg	gaaaactgat	gtggaaatgt	ccctttgggt	5220
tcagttacct	gagcagaagg	ggccgggcat	tgccaaactc	tcctcttagg	acagaattgc	5280
tcccagtatt	gatcattgtg	ttctgagttg	ggggagcaaa	ttgtgcagga	ggccaggtca	5340
gtgccaaggt	gggtgggagg	aattggagca	ggaagcttgc	ctaagtgtgc	ccagcaaagc	5400
cacggtagaa	cttttctactg	tggctctatg	ctacttctta	gcaaccttct	ccatgtgctt	5460
cctggagagt	ccttggagtc	agaacctttt	tcttgaaacc	cagacacttt	acttccaaga	5520
aatgctgtc	caagaaaact	catccttccc	ttcttctcat	gaacgtttgt	tagagggtgtg	5580
tcttctcttc	ctttgagctt	ttccactcag	ggtttagggg	aggtgatatt	ctatattttg	5640
gtttggctct	gggtactgca	acactaggct	attaagattt	catccttact	gctttgcccc	5700
tcctatcttt	ccagaaaacc	acaatggatt	tgtagaaaat	aatggaacgt	cctgtttgga	5760
caggatataa	ccattttctca	gctagaggat	attgttggaa	tgaagaaaga	taaatgggga	5820
gaagggaaact	cacatttgctt	tggcacttaa	attaagccat	gtactgtgtt	gggaaattat	5880
ttatattatc	tcgttgaatc	cacagtagaa	cacagttgaa	caccatacaa	ggtaagtatt	5940
gtcatcctta	ttttaccatg	aggaaattga	tgcttagaga	gcataaaagcc	ttggccaggg	6000
gcacatagtt	gggaagccgg	ggctaattca	tgcctgggct	ctttctgata	gttttccttt	6060
tttaattgtc	ccctcctcat	tgttaccttg	gggatttcaa	gagattcatg	tagcttctaa	6120
atcaacgaac	tgattcctgg	agagcagctt	ctgtatgaga	aaaatctagc	taattattta	6180
tttcagtgtc	tctggaatgc	aagctctgtc	ctgagccact	tagaaaacaa	tttgggatga	6240
caagcatgtg	tctcacaatg	ctgctctggt	tgccagtgtc	gtgctgccag	ttgtcatctt	6300
tgaacaaaact	gatgcagtg	tggtttaact	cttcctcttt	ttggagtgaag	aaactttgga	6360
ggcctgtgtc	cttctagaag	tttgctgagc	aaatggtaag	gaaaagaaat	aggtcctaag	6420
gcttgactat	ttcagagaat	ttcttgattt	attggactgt	caatgaatga	attggaatac	6480
atagtggtag	gctgtctttt	cttctcagac	actgcaattt	cctccaatct	cttgactttt	6540
ctagaagtgt	taatccaagt	ccttgtttgg	tggtagataa	aagggtattg	ttctactaga	6600
gactgacctt	ggcatggaga	tctcatttgg	actcacagat	ttctagtcta	gcgcttggtt	6660
ttgtatccat	acctcgctac	tgcattctta	gttccttctg	ctccttgttc	ctcatgccca	6720
gtgtccacc	ctacccttgc	ccctactcct	ctagaggcca	cagtgattca	ctgagccatt	6780
tcataagcac	agctaggaga	gttcatggct	accaagtgcc	agcagggccg	aattttcacc	6840
tgtgtgtcct	cccttccatt	tttcatcttc	tgccccctcc	ccagctttaa	ctttaatata	6900
actacttggg	actattccag	cattaaataa	gggtaactgc	tggatgggtg	gctgggatac	6960
acagaatgta	gtatcccttg	ttcacgagaa	gaccttcttg	ccctagcatg	gcaaacagtc	7020
ctccaaggag	gcacctgtga	cacccaacgg	agtagggggg	cggtgtgttc	aggtgcaggt	7080
ggaacaaggc	cagaagtgtg	catatgtgct	gaccatggga	gcttgtttgt	cggtttcaca	7140
gttgatgccc	tgagcctgcc	atagcagact	tgtttctcca	tgggatgctg	ttttctttcc	7200
agagacacag	cgctagggtt	gtcctcatta	cctgagagcc	aggtgtcggt	agcattttct	7260
tgggtgtttac	tcacactcat	ctaaggcacg	ttgtggtttt	ccagattagg	aaactgcttt	7320

attgatggtg	cttttttttt	ttttttttga	gacagagtct	cgctctgtcg	ccatgctgga	7380
gtgtagtggc	acaatcttgg	ctcactgcac	ctccgcctgc	caggttcagc	gattctcctg	7440
cctcagcctc	ccaagtagct	gggactacag	gtgcctgcca	ccatgcccag	ctaatttttg	7500
tatttttagt	agagacgggg	tttcaccgta	ttggctagga	tggctctgat	ttcttgacct	7560
cgtgatccgc	ctgcctcggc	ctcccaaagt	gctgggatta	taggcttgag	ccaccacgcc	7620
tggccgatgg	tgtcttttat	catttgaagg	actcagttgt	ataaccact	gaaaattagt	7680
atgtaaggaa	gttcagggaa	tagtataagt	cactccaggc	ttgaggcaaa	atttacaat	7740
gctgctgact	ttgtatgtaa	ggggaggcat	tttcttagaa	aagagaggta	ggtctctggg	7800
attccagtat	gccatttcca	tcctcagtg	ttttggccac	ctgagagagg	tctattttca	7860
gaaatgcatt	cttcattccc	agatgataac	atctatagaa	ctaaaatgat	taggaccata	7920
acacgtagct	cctagcctgc	tgtcggaaac	cctcccgagt	ccctctttgt	gggtgaaccc	7980
agaggctggg	agctggtgac	tcatgatcca	ttgagaagca	gtcatgatgc	agagctgtgt	8040
gttggagggtc	tcagctgaga	gggctggatt	agcagtcctc	attggtgtat	ggctttgcag	8100
caataactga	tggctgtttc	ccctcctgct	ttatctttca	gttaatgacc	agccacggcg	8160
tccctgctgt	gagctctggc	cgctgccttc	cagggctccc	gagccacacg	ctgggggtgc	8220
tggctgaggg	aacatggctt	gttggcctca	gctgaggttg	ctgctgtgga	agaacctcac	8280
tttcagaaga	agacaaacag	taagcttggg	tttttcagca	gcggggggtt	ctctcatttt	8340
ttctttgtgg	ttttgagttg	gggattggag	gagggaggga	gggaagggaag	ctgtgttggg	8400
tttcacacag	ggattgatgg	aatctggctc	ttatggacac	agaactgtgt	ggtccggata	8460
tggcatgtgg	cttatcatag	agggcagatt	tgcagccagg	tagaaatagt	agctttgggt	8520
tgtgctactg	cccaggcatg	agttctgac	cctaggacct	ggctccgaat	cgccctgag	8580
cacccacttt	tttctttttg	ctgcagccct	gggaccacct	ggctctccaa	aagcccttaa	8640
tgggccccctg	tatttctgga	agctgtgggt	gaagtgaagt	agtggcccca	ctcttagaga	8700
tcaatactgg	gtatcttggg	gtcaatctgg	attctttcct	tcaggcctgg	aggaatataa	8760
taactgagac	ttgtttttatt	tctgcagagg	gttctaagcc	attcacttcc	cagatgggcc	8820
aataatgctt	tgagtaatct	ggagatcatc	tttaatgcgc	aggtgaatgg	aactcttcca	8880
cagagggatg	tgagggtgtg	agagcagagt	gaactccctg	aaactcagac	gtcagctctt	8940
tgtctctcta	tctctgaaca	cccttcctta	gagatcccat	ctctaggatg	catttctctg	9000
tagttagttt	ctaagtctct	tgttcctgtt	ctgcctttat	ttttttttcc	tggattctaa	9060
gccagtatcc	ccacttggct	gtcttaatgt	agcttaacat	gtctgtaatc	aaaatgatca	9120
tctttctgag	attcaaaagg	ctataaggga	ctttggagag	aatttcattc	agttttcctc	9180
aaactagaat	aatgcttggc	ctgtctgtaa	aagaacaaaa	gtgtcaaagc	atccttttgt	9240
tcactaaatt	tccttttttta	ttatagtgtt	acttaaatat	taggaagtta	aaagtaggta	9300
taaacttctt	ataggctgtt	attatacaac	tatatgaccc	atacatattt	acaaattaag	9360
tgcagccaaa	attgcaaaat	caataccatt	caaattaata	ccttaaatgt	ggtgaggcag	9420
ctgttgttca	actgaaacca	aattataagt	tgcattggcag	taaatgctat	catgctgac	9480
attttgagtt	tggccagtct	atattatcat	gtgctaata	ttgaattctc	caccattttt	9540
tctacttgta	tgaccttaat	ttgatggcac	ctgttccatc	ctcatgagtt	tgtacaatt	9600
atactggtgc	caacacaatc	ataaacacaa	atataaactt	gggctttgaa	atcttgtgcc	9660
agaacttggc	tttaaagtaa	gcatttaaaa	aatccatatg	tgtttattag	actttgttta	9720
gatgactgtt	gaaatgaaaa	caaagtgttt	aaaatcctct	tagagaactt	aaatataatc	9780
cctcagcaat	atgtatacag	atcttccttt	gagaaaaact	gattgtgttc	agcctctcat	9840
gttacaaatg	gggaacctga	attctgaggt	ctctagttag	agaacaggga	ctggaatctg	9900
tggatcctat	ctgtttttaat	aataattgta	aagtataata	gataatatta	tattaaaaag	9960
agagnnnnnn	acacttagaa	tgagcttcca	tgtgtgaggc	actaactgat	taggcattat	10020
taactagatt	tattcctttt	aaggccccgc	gatgtactgt	tatttccaca	tgtttagct	10080
ggggaacgtg	ctactcagag	aggtaagta	acttgtctga	ggtccacacc	actaacaagg	10140
agcacaggta	gggttcaaat	ccagataatc	tgactttgga	gctggcactc	taactcaatg	10200
tgcctaatacg	cttttcagtg	gtgtcattat	tttgccattt	ctccatctga	gaatattgaa	10260
gtttctgact	ccttccttgc	ctttctccct	gcctcccgtg	gttatcccca	ggtcttgggtg	10320
ttccagtcct	ctatgtccgt	ccttactctt	attccttttg	tacagtgtga	tccagggtctc	10380
ctgcccttct	tatcctggta	gagggggccc	acttgcctgg	aaattgtctc	cgccatgggt	10440
tatccatgtt	gtgtgtccat	tagtgagtag	tgggaagaat	catatcatgt	tggcaatgaa	10500
aggggggcta	tggctctggg	gtagtctagt	ctgaactctt	atttt		10545

<210> 15

<211> 4736

<212> DNA  
 <213> Homo sapiens

<400> 15

cttttttttt	tttttttttt	tttttttttt	tgaggtgaag	tctcactctg	ttgcccaggg	60
tggagtgcaa	tggagcgcac	ttggctcacc	ccaacctctg	tctcctgggt	tcaaacagtt	120
ctcctgcctc	agcctcccga	gtagctggga	ttacaggctc	ccgccaccat	gcccagctat	180
ttttttgtat	tttcagtaga	gatgggggtt	cacctttttg	accaggctgg	tcttgaactc	240
ctgacctcat	gatcaaccca	cctcagcctc	caaagtgt	gggattacag	gtgtgagcca	300
ccacgcccgg	cctcataagt	atttttctaaa	tttattttaca	gtcatgccat	ttaaaaggaa	360
agttgtattc	ctgtctttgt	taatattttat	aagtgatttt	attcagctac	aagcttggaa	420
tggcatataa	ttttgtattc	tgctttttttc	acttaatat	acatggctaa	tgatttctgt	480
gtttcataaa	cattattctg	atgatggcat	gatatattgt	tgagtacatg	taccataatt	540
gaatcatttc	cctattgcta	tgcaattaag	ttgtttccaa	tattttgcaa	ttataatgtt	600
tcaatgaatg	aataacttta	tgcatatagc	tttttgatat	cttaagttca	gtttcctagg	660
atgaatttcc	aggaatagta	attggggcaaa	tgggataaac	atgactcttg	aatacgtatt	720
gttaacattg	ctttcccaaa	gggctcaact	gatttatatt	tccgtgttca	ttatctttta	780
aaccagctca	tttactcacc	aaacattttt	aaagccatta	tcatgtggta	ggcttagtaa	840
gaagaaagtg	accctaaggg	agaagcttat	atataaatag	ggtccttggg	gtaccaagtg	900
ctgatacaga	cacaaagtac	ctggggaaat	tgagatgagg	gagtcctggc	tcagctggga	960
gaaaagttca	ttttcataga	gtcatggttt	tgttctttgg	cagaaagaaa	attgctttct	1020
tccccacccc	cacccccagc	tttattgagg	tataattgac	aaataaaaaat	tgtatatctt	1080
taagatatgc	aatgtgatat	atatgtatat	ctcaacttaa	aaaataagct	acagaataaa	1140
aagggtgtttg	ctattaaaaa	aaaagaaaag	gctgaatgtc	attcccaagc	ttggaaattt	1200
gagtatgttg	cctctttggg	attattttaca	gaaatattag	caagaccagc	cccatctttg	1260
gtcttgagta	ctccactgtc	agcatgcttt	cttccagaga	gggatccatt	tgcttttatt	1320
tttcattctg	ttgtgccgtc	tatgcaaaact	attcttgata	gttttatggg	aacagtgttt	1380
ttttgttcca	tgagataaat	ttatacatgc	tcattgtgga	aaatttagaa	aagacaggaa	1440
agtattaaaa	acatcmcytt	tttttttttt	tttttttttt	tttttttamy	cagacagagt	1500
cttgctctgt	cgcccaggcc	ggagtgcagt	ggcgtgatct	cagctcacag	caacctccgc	1560
ttcccagggt	taagtgtatt	tccctgcctca	gcctcccaag	tagctgggag	tacaggcatg	1620
caccaccacg	cccggtctaat	tttgattttt	tagtagagat	gggggttcac	catgttggcc	1680
aggctgggtc	caaactcctg	acctcagggtg	atccgcctgc	cttggcctcg	caaagtctctg	1740
ggattatagg	caggagccac	tgcgccagcc	acacctacgt	tcttatcatc	ctagtacatc	1800
cactgtcatt	atcttgctgt	atttccttct	gccagctctc	actctgatca	tgagtgggcg	1860
tgatcatgca	gtgatctcgg	ctcactgcaa	cctaggcctt	ctgggttcga	gtgattctcc	1920
tgcttagacc	tctgggttc	aagtgattct	cttgcttggg	cctcccaagt	agctgggatt	1980
acaggcatac	acccccatgc	ccatctaatt	tttgattttt	tagtagacac	agcgtttcac	2040
taaaattttg	tatttttagt	agagatgggg	tttcaccatg	ttggccaggg	tggtctccaa	2100
ctcctgacct	cagggtgatcc	gcctgccttg	gcctcacaaa	gtgattacag	gcatgagcca	2160
ctgcatccat	cgccaaaaag	atttttttaa	agagtttaat	gtagaaccat	atcaaagggtc	2220
tttggaataa	aaaaacagtt	ttttaaaaat	atcagaaata	aaacaacaaa	taaataaata	2280
aataaaaaaca	cccaaaacaa	tctgaagcac	gagcacctag	cagaaagggt	caattatgat	2340
ctattcatag	agtggaatat	caagtagaca	ttacaggaca	tgttttaaga	ttatatttta	2400
tgtcatggga	aatgctctcc	cagtatgatg	ttaaatgaaa	aaacagaata	caaaagtata	2460
tatgctgcat	agtctcaata	ttgtagagaa	aaaatattat	ttatgtatgc	atgaaaaaag	2520
acaaaagatg	ttaacagaga	tccattgtta	cttcagttta	ctagggattg	tctctgggag	2580
gtaggattaa	ggtgatttat	atttaccttt	ttaaactttt	ctgtattttt	ttattttcaa	2640
attttccata	aaaatataag	gacttgaaga	tcaagaaaaa	atttctgctt	tggctcagtg	2700
cagtcgtcac	gcctgtaatc	ccagcagttt	gggagcccta	ggggagagga	tcacttgaac	2760
ccaagagttt	gacgttccag	tgagctatga	tctccggatc	gtaccgcctg	gacgatggag	2820
caagaccctg	tctcaaaaaa	aaaaatcttt	gctttttttt	tttgtttgtt	tttgagacgg	2880
agtctctctc	tgttgccccca	gctggagtag	agtggcacia	tctcagctca	ccgcaacctc	2940
tgctcctcgg	gttcaagcga	ttctcttgcc	tcagcctccc	aagtacctgg	gattccatgc	3000
accaccact	atgccagct	acttttttgt	attttcagta	gagacagggg	ttcaccatgt	3060
tggccagggt	gggtctcgaat	tccctgacctc	agctgatcca	ccggccttgg	cctcccaaag	3120
tgctgggatt	acaggcatga	gccactgtgc	ccagcccaat	cttttgcttt	ttttaaaaaa	3180

agaagacaaa	aagggatttt	ataccagtat	tatcttggt	gtgtgactct	gaagccacag	3240
ttgtaagtta	taattactct	gaaacacaag	gccctgtgac	tcttttggtg	3300	
ttatcttgat	tacaacgttg	gaatatagaa	atgaaaggaa	tgggagaggt	gatagacttc	3360
aggcagtgt	actagttgtc	tgaacactac	tggctcaatt	atattgtgtc	tagtgatttc	3420
catcttgctc	gtctgcta	ttatcgctg	gtaactcact	gaggcaggg	tttcttttg	3480
agaaacctca	ttgttttaac	cagtgtatca	tgcttggtta	gaagttcaat	gatcttttta	3540
actcatcgga	gaagatgatg	accagacctg	gacagatggg	gaaggacttt	gcactctctc	3600
tttacagtcc	tgagtgcaca	caggtcaata	tggaaactatg	tgtgaatttt	cattgtcttt	3660
gagagccctc	ttctctgccc	catagggagc	agcttttgtg	gcaattagag	gagcaaggg	3720
tgtgtgtatt	tagcacagca	ggttggcctg	gtcctctcct	ctcaacatag	tcaccacata	3780
cctggcacta	tgctaaggct	gggaatgcag	acagatgggt	gcctgctttc	agagtgtca	3840
atgtgctgag	gaagccagca	acagaaacag	atgatttcag	gagctccagg	aaaatgctac	3900
aggaggagt	tgctgggtt	actggagtag	cacaggagga	gggcttctag	ctcaggctga	3960
gatttttagta	aaggaaatta	tgccacgatg	aatcctgaag	aatgaataga	agtgaaccag	4020
ataaagcacg	atagggaagca	tcttccctta	cctaaggga	gacacagagg	tatatggaat	4080
ggtatgttaa	aaggttggga	ctccaaacag	ttctgttaaa	gcttagagag	tggtgggaga	4140
gactggagaa	gttgattaat	tagtaaatga	agttgtctgt	ggatttccca	gatcccagtg	4200
gcattggata	tccatattat	ttttaaat	acagtgttct	atcttatttc	ccactcagtg	4260
tcagctgctg	ctggaagtgg	cctggcctct	atcttcttct	ctgatcctga	tctctgttcg	4320
gctgagctac	ccaccctatg	aacaacatga	atgtaagtaa	ctgtggatgt	tgctgagac	4380
tcaccaatgg	cagggaaaat	ccaggcaatt	aacgtgggct	aaattggact	tttccaaaga	4440
tgctgtcttt	gggaaacatc	acacatgctt	tggatcagaa	aacctaggct	tctaatttgt	4500
tgataaggca	tgaactcagg	agactgtttt	cagtcctagt	gaatgggtgat	aattgtaatt	4560
ataacagtag	acaacatctc	ttttacacat	tttaaatacat	gaaaatagaa	taaccttact	4620
gataatttta	gaaagtgggtg	attaaaagca	catttaagat	aatgccttaa	cacctagtct	4680
tttccatatg	catgatgtct	taatcacaca	ttgcaaatca	tggaaacacag	aatttt	4736

<210> 16  
 <211> 4768  
 <212> DNA  
 <213> Homo sapiens

<400> 16						
atcttacaat	cacagtcttt	ctcttagggc	tgggctcagt	gggtggattg	acactgcaga	60
aatggccaga	tctaaaggat	caacatttac	gtagctggga	aatgtagctg	ggacttcagt	120
ttcactgccc	tagtgatttt	tcctaccact	aagcagctca	gtccataccc	ctacgagacc	180
cacaagctta	tgagatactg	ttcttccagg	aaagcagtgg	ggccagggcc	acctttta	240
tgtgtttctt	ggcctgggtc	catctttctc	acaatatata	gcaacagtta	tttacttgct	300
gatttttctaa	tgacacatcac	acatagtcac	attaaacaca	cacacacaca	cacacacaca	360
cacacacccc	tcaagaaaca	ttttctgaga	cgtgatttcc	tgatttcatc	aaaaaagaaa	420
agagcggggc	aggcacagt	ggaagtcaag	gtgggtggat	cacttgaggt	caggagtttg	480
aaaccagcct	ggccaacacg	gtggaacctc	gtctctacta	aaaatacaaa	aattagccag	540
gcgtgggtggc	gcacacctgt	aatcccagct	actggggagg	ctgaggcagg	agaattgctt	600
caacctgcca	ggctgaggtt	gcagtgagcc	gagattgcgc	cattgcactc	cagcctgggc	660
aacagagtga	gactctgtct	caaaaaaaaa	aaaaaaaaaa	aaagcataaa	ctgaaattta	720
tatgcaattt	atatgcctgt	gagataattc	tgttttctct	tttggaaacc	caaagagatt	780
tttttgattg	atgagcaaat	acattttaga	ttttatttaa	gcattatgcc	aagcaccact	840
gaagtataag	tttcaagggc	aaactcagtt	ttttcatcta	ctagacgaat	gattttctgg	900
aatgattaca	agcaggcaag	atggtgtagt	ggaaatagca	aatgtcttcg	gcacacagaca	960
agttgggggt	tgtttgtatc	ctgcctctgc	ccttcaccga	ggttgtgatc	ttgggcagat	1020
tgttgagttt	taacctagat	tcctctgact	ccagatcata	aattttcaga	aaagttctga	1080
aattcttgta	tatactgatg	gtaaatgaga	cttttccctta	catctatgca	cttctttgtt	1140
tgtttgtttt	gagatgggtc	tgctctgttg	cccagactgg	agtgcagtag	tgcaatctcc	1200
gctcactaca	atgtctgcct	cccagggtcc	agtgagcctc	ctgcctcagc	ctcccaaata	1260
gctgagacta	caggcatgtg	ccaccacgtc	cggtcaattt	ttgtattttt	agtagagaca	1320
gggttttgcc	atgttgacca	cactgggtctc	gaactcctgg	cctcaggtga	ttcgcccgcc	1380
tcagcctccc	aaagtgtctg	gattacaggc	atgagccacc	atgcccggcc	atatccatgc	1440

acttcttgca	accttacctt	cttttctcat	caccctccag	ggacctagtt	ggaagagcag	1500
agttaaaagt	taagggtgaaa	cttggagagg	tgtcttgtcc	ctaggaacaa	aggactgggt	1560
tgaaattctc	tgtaaattctt	ccccagttca	aaccagagtt	atcaagggtct	taaaaacttc	1620
cctgggtcct	gagagcccat	tatattatnt	acttgtcttc	ctgtacaccc	actgcctagt	1680
cctgatccta	cttttgtttg	caaataggat	ggggcacaa	gtacaaggaa	gggcctttgc	1740
cacccctgct	aaggggataac	ctgaaatacc	ttcaccatca	ctgccctgtg	ctgcttttca	1800
cctatgccag	tctgtctaca	gtgccagtgt	ctcctggcat	tgaaagggga	gaatcttttg	1860
gtcctttgag	tattttgggtg	ggttacataa	atctccctga	atgaagagca	gctgacttag	1920
gcaagggggc	ttgtttgggt	ttccttgaac	tattaacagg	aagataggga	gattaactgt	1980
gtaaatgttc	aataggccag	agtccttgca	gaggggtggc	acagtgatca	gatcttatca	2040
catccttgct	ttgggtgttg	cctctctggt	tggagtattg	atagaaaaga	aagaaagacc	2100
ctatattgaa	atgcaaagtg	cagcaagtcc	tgactttgga	ttaacttctc	agcccatttg	2160
catgaaaata	aaaagatgaa	taaaacaagg	ttcccacttt	ggagggaggt	ggtagctgtg	2220
agatgggaag	agtgttcctg	ctgggcaaca	gcagagtaag	tgctggggta	gattcactcc	2280
cacagtgcct	ggaaaatcct	cataggctca	tttgttgagt	ctttgtccta	caccaggcac	2340
tctgcaaaaa	cgctttgcct	gcaaggctct	atgcgagtgt	caccacagct	ctgtgaagtt	2400
aattgtactt	ttatcaccat	tttacagatg	agaaaaactga	gggtatgggg	tcaatgactt	2460
ggctaaagtc	actgcttagc	aagctgcagg	gactggatgt	gaattccaat	tggtttgact	2520
ccaaagcctg	tgaagctact	tgttcttcac	cacctagagc	tgtggttctt	gataactgtg	2580
aactcttttg	gggtcacaaa	tagccctgag	aatatgatag	aagcaggagc	tctggccttt	2640
ctgtccatac	ctgaacaggt	ccttgggtta	agagcccttc	gtccagggcc	tattaatctt	2700
gatcctcata	agcagcatcc	atgtattacg	gccgcaaac	aaactgtgcc	agaccgaatc	2760
ctaggaccaaa	gccccaaatat	gtcccatcat	ccttttggtg	agaagctcat	tgtaagaaaag	2820
aaagaggaga	gcaagaggat	gacctagtgc	atggggcctc	attgttttaa	ttagtgacaa	2880
aacaacaata	ataacaacaa	aacccccgaa	gcttcacaga	tgacatcaga	ccccaaagcct	2940
gtgtgttttt	caggtgccct	tgaggagcct	tgtagctggc	agaggagggtg	aaactgacaa	3000
atgtttggca	gatggaggag	agtaccagag	gggtttgaga	tgagctaaat	tccaatctaa	3060
ccgcagtgtt	gaggaagagg	cttggattgg	gaccatggag	atgggggttc	tactcccagt	3120
cacgccagct	gactttgcga	gtgttctttg	tcagtcactt	tatcttattt	tattttattt	3180
tatttttttg	aaatggagtt	tcgctcttgt	cgcccaggct	ggagtgaat	ggcgcgatct	3240
tggctcactg	caacctcccc	ctcctgagtt	caagcgattc	tcctgcctca	gcctccagag	3300
tacctgggat	tacaggcgcc	tgccaccaag	cccatcgaat	ttttgtatgc	ttagttagaga	3360
cagggtttcg	ccatgttggc	caggggtggc	ttgaaactcct	gacctcaggt	gatccgcccc	3420
ccttggcctc	ccaaagtgtc	gggattacag	gcgcgagcca	ctgtgccccag	cccacttcat	3480
cttaccgtag	ttacctcctt	agagtatgaa	aaaataggct	tagggcatcc	ccaagtcccc	3540
tctatgtctg	agagctgagg	ctggctgtca	aagaggaaact	aaggatgccca	gggactttct	3600
gcttaggacc	cctctcatca	cttctccaac	gctggtatca	tgaaccccat	tctacagatg	3660
atgtccacta	gattaagaat	ggcatgtgag	gccaaagttc	cacctgagag	tcagttttat	3720
tcagaagaga	caggtctctg	ggatgtgggg	aatgggacgg	acagacttgg	catgaagcat	3780
tgtataaatg	gagcctcaaa	atcgcttcag	ggaattaatg	tttctccctg	tgtttttcta	3840
ctcctcgatt	tcaacaggcc	attttccaaa	taaagccatg	ccctctgcag	gaacacttcc	3900
ttgggttcag	gggattatct	gtaatgccaa	caacccctgt	ttccgttacc	cgactcctgg	3960
ggaggtccc	ggagttgttg	gaaactttaa	caaatccatg	taagtatcag	atcaggtttt	4020
ctttccaaac	ttgtcagtta	atccttttcc	ttcctttctt	gtcctctgga	gaattttgaa	4080
tggctggatt	taagtgaagt	tgtttttgta	aatgcttgtg	tgatagagtc	tgacagaatga	4140
gggaagggag	aaatttggag	aatttggggg	atttggggta	tccatcacct	cgagtattta	4200
tcatttctgt	atgttgtgaa	catttcaagt	cctgtctgct	agctattttg	gaataacta	4260
tatgttgtta	atgatatcat	gcagcagagc	tcacatctgaa	tgggctggct	ctaggagcta	4320
gagggtaggg	gctggcacaa	agatgcattg	tggaaggggtc	cttgcccata	agaagcttac	4380
agccaaggct	aggggagttc	tgtcttctct	gcatcagggtc	acctctctca	cctctgtcac	4440
tgcccatca	gactacaatg	tctgcaggtc	tttctccctt	gagtgtgagc	tccttgagca	4500
aagcaggatg	ctgccccttc	cctttgtatt	ccttgtctct	tgcttcagtg	cctgtacata	4560
agtatgggca	taataagtg	cccccaaatg	agacattgag	gattcttcaa	atgcacagga	4620
ccgtgatgtg	agttaggacg	gagtaaggac	gatgggatgt	ggctcatgac	aatcctgagg	4680
aagctgcagc	tgcggcacgc	agggccacac	tgtcatgttc	atggacccta	gactggcttt	4740
gtagcctcca	tgggccccct	ccatacac				4768



<210> 17  
 <211> 1295  
 <212> DNA  
 <213> Homo sapiens

<400> 17

tcattgactgc	cattgggtata	aagatgaata	taatccagac	cagattcatg	attattcata	60
catttttagt	gtattaactt	ttaattctgc	ttttaaaata	aattaaaaca	ttctaataatg	120
cccttaagag	tatcccagcc	caggccactg	agcctactgt	ggttcatgga	taagtttgcc	180
cctgggggca	tgtgtgtgca	tgcattgtgtg	tgcacatgca	tgatgagccg	ggccttgaag	240
ggtggtaaga	tttgggtgtg	tagaccaatg	gagaaaggca	tttggggcag	tgatgatggg	300
tgggggaggg	aacatgggtga	tgaatggagc	tgggtgtggg	gagccatggg	agtgggttag	360
ggccagcctg	tggaggacct	gggagccagg	ctgagttcta	tgcacttggc	agtcacttct	420
gtaaagcagc	agaggcagtt	ggcctagcta	aagcctttcg	ccttttcttg	caccctttac	480
agtgtggctc	gcctgttctc	agatgctcgg	aggcttcttt	tatacagcca	gaaagacacc	540
agcatgaagg	acatgcgcaa	agttctgaga	acattacagc	agatcaagaa	atccagctca	600
agtaagtaaa	aaccttctct	gcatccgttt	ataattggaa	attgacctgc	accagggaaa	660
agagtagccc	aggtgtctgg	ggcttgttcc	cattagatct	tccccaaggg	gtttttctcc	720
ttggtggctg	gcctgtgggg	ccccctctca	ggaggcattg	gtgaagaaac	taggggagct	780
ggttgccaca	gacagtgatg	tactaatctt	ctctgggaag	acagaagaaa	agtccccagg	840
gaagaatact	acagacttgg	ccttagggac	agctaggggt	gcagattgct	gccaaactgca	900
ttttttctga	agttggccat	atggttgacg	tgaatggatt	tatagacaga	gtatttctgt	960
gcatataaga	gcaattacag	ttgtaagttg	atatggataa	gtgaaagtta	agcacttctt	1020
tctaaaaaga	gaatgcaatt	cattttcccc	taatcatttc	aattagtctg	atgggcattt	1080
gaacttgttg	tctttaaaaa	gtgaaatctt	tacctctgat	ctggtaagta	tccaggcaat	1140
ttcttgtgtg	ccaccagga	ggtatctggg	gagtgggcat	tttctgactg	aggcattggc	1200
tgccatagca	tcagagcagc	cttcaggca	gtggcctggc	aaggggacag	aggctggtgg	1260
gagcagctgg	ctgagtgcag	ccagtaatgg	catgt			1295

<210> 18  
 <211> 2188  
 <212> DNA  
 <213> Homo sapiens

<400> 18

agctctccag	gtgattctga	tgcatactta	agtttgagaa	ccattgcttg	ttttgcatta	60
aacaggagat	tagtctctgc	agcttgtggg	aataaagctt	taaatctctc	caatttttagc	120
tctgtgaaaa	ggcagtgggg	agacaggaat	gaacggacta	gtgccacaaa	gctcaggtgg	180
ggtgggtgag	atcatttaga	agagaaagac	cgggcatggt	ggctcacgcc	tgtactgtca	240
gcactttggg	aggccaaggc	aggttggatc	acaaggctag	gagtttgaga	ccagcctgcc	300
tatcatgggtg	aaaccctgtc	tgtactaaag	ataaaaaaaa	aaaaatttgc	cagtcattggt	360
gatgcatacc	tgtaatccca	gctactcggg	aggctgaggc	aggagaatct	cttgaacccg	420
ggaggcgggg	gttgacgtga	gctgagattc	caccattgca	ctccaacctc	ggtgacaggg	480
tgagactccg	tctcaaaaata	aaaaaaaaaa	aagaaaagga	aaggctgtgt	gtgtgtgtat	540
gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtta	cagcaccatc	acactgtttg	agttgaggag	600
cacatgctga	gtgtggctca	acatgttacc	agaaagcaat	attttcatgc	ctctcctgat	660
atggcgatgc	tcccctatct	cattcctgtg	tgtgttttagc	caggcaactg	ttgatcatca	720
atattatgat	aacgtttctc	cactgtccca	ttgtgcccac	tttttttttt	tttttgagtt	780
acttactaaa	taaaaataaa	acactatttc	tcaatagact	tgaagcttca	agatttctctg	840
gtggacaatg	aaaccttctc	tgggttcctg	tatcacaacc	tctctctccc	aaagtctact	900
gtggacaaga	tgtgagggc	tgatgtcatt	ctccacaagg	taagctgatg	cctccagctt	960
cctcagtagg	gctgatggca	attacgttgt	gcagctactg	gaaagaaatg	aataaaccct	1020
tgtccttgta	atgggtggtga	aggggagggg	ggtagtttga	atacaacttc	acttaatttt	1080
acttccttat	tcaggcagga	attgccaaac	catccaggag	tggaaatagc	aacctggcgt	1140
catgggccag	ctgggttaaaa	taaaattgat	ttctggctta	tcacttggca	tttgtgatga	1200
tttcctccta	caagggtatac	attttaagtt	gagttaaact	taaaaaatat	tcacagttct	1260
gaggcaataa	ccgtgggttaa	gggttattga	tctggaggag	ctctgtctaa	aaaattgagg	1320

acaggagact	ttagacaagg	gtgtatTTTg	agactTTTta	gaattTTtata	aaataagggc	1380
tggacgcagt	ggcactgagt	tgagaactgt	tgcttgcttt	gcattaaata	ggagatcagt	1440
ccctgcagct	tgtgggaata	aggctTTTaaa	tctctccaat	tttagctctg	tgagatggca	1500
ctggggaaac	agaaatgaac	ggactagtgt	cacaaagctc	aggtgggatg	gacgagatca	1560
cttcaaagg	ctgtaatccc	acgtctataa	tcccagcact	ttggggaggcc	aaggcgggaa	1620
aatcacttga	ggtcaggagt	tcgagaccat	cctggccaac	aatgcaaagc	ctgtctctac	1680
taaaaatatg	aaaattagct	cagcgtgggtg	gcatgctcct	gtagtcccag	ctactcgtga	1740
ggctgagaca	ggagaatcgt	ttgaacctgg	gaggcggagg	ttgcagtgag	ccaatatcac	1800
gccattgcac	tccagcctgg	ctgacagagt	gagactccat	ctcaaaaaaa	aaaaaaaaaa	1860
aagaattTTta	taaaatcagg	aaataatatt	agtgtTTtatg	ttgaattTTta	actTTtagaat	1920
catagaaaac	ttcctctggc	atcattatta	gacagctcct	gtgcagtggg	tagcaccaga	1980
cccagcttgc	atggTTtattg	attTTTtcaga	gacactTTTt	gagcttattc	tctggcagaa	2040
aggggaactg	cttcctcccc	tatctcgtgt	ctgcatacta	gcttgtcTTt	acaagaagca	2100
gaagtagtgg	aaatgtTTtat	tcttgaaaat	aagctTTTtg	cttcacatga	tctagaattt	2160
ttaaaattag	aaaaatgtgc	ttactgcg				2188

```

<210> 19
<211> 1183
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1183)
<223> n = a, t, c, or g

```

<400> 19						
agtaaaatgg	agaattccaa	attctgaaat	tgTTtagaaca	tagttctgtg	tcttagTTtaa	60
atatcgacac	ttacagataa	atagcataaa	tgctTTtctcc	ccatattTTca	gcccagTcct	120
acttaaagac	aacataaaatt	gcaaaatagt	gaggatgttg	ttcatctaat	aaaagtgggt	180
ccaggaattc	agactctgga	ttcctgtTTg	ccaaatcatg	tgtcccactc	ttaaagaaaac	240
gagttggact	ntggattTTt	ctTTtgcaaga	gggacaagag	tgtgggagat	actgagTTtaa	300
tgcaacttgc	aggTTTTtaag	tgtcctgtca	ttgtgccttg	tgctTTtgata	cattctgagt	360
ttcagtaaag	agacctgatg	cattggactg	ttgcaatgga	acctgTTTta	agatcttcaa	420
agctgtattg	atatgaagtt	ctccaaaaga	cttcaaggac	ccagcttcca	atcttcataa	480
tcctcttgTg	cttgtctctc	tttgcatgaa	atgcttccag	gtattTTTtgc	aaggctacca	540
gttacatttg	acaagtctgt	gcaatggatc	aaaatcagaa	gagatgattc	aacttggtga	600
ccaagaagtt	tctgagcttt	gtggcctacc	aaggggagaaa	ctggctgcag	cagagcgagt	660
acttcgTTcc	aacatggaca	tcctgaagcc	aatcctggTg	agtagacttg	ctcactggag	720
aaacttcaag	cactaatgct	ttcggaatgt	gaggctTTTt	cttggaacagc	atgactTTtg	780
tttTtagaaa	agtacggctg	gctgggagTt	tgtgatataa	tttagTtcag	tggtattctta	840
agtgttctta	gtgttctTTt	agactTTTtg	gccatctccc	aaagggTgaa	tgggagaaga	900
aagctgggtg	tggtgagTt	taagccaaaa	gtTTTtTtgTg	cttgtTTTcaa	tcagagaaga	960
cctgctTTTt	catgtTTTta	ctattataat	actaagcaag	agctcatttg	aaaacagagt	1020
tcttcatatt	taaaaaaaa	aagtcttgaa	accattgatg	ggaagatgga	tatctattta	1080
tgTTtaaaaa	cccatcataa	agatgacatt	gtgggctgtc	acagTTggaa	ggccctggaa	1140
ttagatgaga	ccacactatt	tagcttactt	agtaataaca	ttg		1183

```

<210> 20
<211> 8981
<212> DNA
<213> Homo sapiens

```

<400> 20						
ccgtTTTggca	aatgctcagt	aaaagaaaag	ggTTtagaagg	ggagaaaaggc	attTTtatccc	60
aagcctTtcag	gaatcaggat	gaggatgtct	tcacctgtg	gtggggagta	attatacaat	120
tagagacagc	acattggagt	gtggctgata	tgctgtgtga	tgatagctct	agctctctgc	180

ctagcagagg	aaggacattt	caatagaaga	aaaagtttaa	gaccttgccg	agaaacagag	240
aaaggatgtt	tgtcttttta	agaagttgaa	aaccctgttt	gcagacaaaa	gccctccagt	300
tttggcagta	aactttcatg	caagggaaga	aaaaggcagg	ggatgacatt	gttgacaatt	360
gtgaggaatt	accatgtgcc	aggcactgtg	cgaggggctt	tgtacatatc	ctctagtttt	420
agtgcctata	aaaactctgt	gatatgtgca	cagcatttta	aactttgctg	catagtcgag	480
aaaatggaag	gatggggaat	ttgagtcatt	tgcccagggt	tctatagcta	ccccagggtc	540
ccatgactgg	agaattgggg	cacagggtgg	cggggggagag	tgagtgacaa	gaatcctaac	600
aatcttattt	ccattgagtc	cttataaaaag	aagtggatta	actaccacgt	ttttaagttt	660
ttcttaaatt	taggttatgt	ggatctggcg	tttcttggtt	tgtcctgggt	ttgttttggt	720
tttgctatgc	tgtcttgaac	atctgtcatc	ttgtaggcct	aacggtaaac	acaaaaacac	780
tttacctcct	atagctttca	attaagatct	ctcagtttgt	gtttgtaata	gttttccagg	840
caagtctctc	ctagggttcgg	cttctagtgt	gttaaccttt	agttataaag	tgaacccaaa	900
gagagaaagt	agaaacaaaa	cacctcacct	gtttttgctc	atgaattact	ctctatggaa	960
ggaacaatca	tgaacacctc	tgcgtatcac	agaggcctat	ctgagtcctga	cgtttaaggg	1020
agaccgcgta	ggtccctttg	aggactgtga	atgtgggagt	cctgggactc	tggtgaagaa	1080
cccgttccag	aagagatgaa	tgagctggac	aagtcttttc	atagaacctt	taggcagggt	1140
ttcttagaaa	tgcacattga	ggattatgct	tggatattgt	gatgatcaga	atgataactca	1200
atcccttctg	catttggaat	tctctttgaa	agaaaacatc	ccaggcagct	atttctcaga	1260
gatagtgagt	cccagccact	tctagacatt	ttcttggtga	gtctacatta	taatttcaca	1320
gcagtctctg	atatgacaaa	tgtcaaaaata	gcccacctt	ctctaaactt	cagagatgtc	1380
tgatatgata	ttgaataaaa	caatgctcat	agaaacatca	agaaagggtg	attttccctg	1440
gatacttttt	tctgtcttga	caaataacag	tgaagaaact	gatctcacgt	ctttttctct	1500
ttggaagcct	gaacactcag	aaccacaact	gaggctcctc	agctatagca	attctgactt	1560
cacagtctgt	aaattattgt	tctttttttt	cttttagctta	tgctttctgc	cctaatttat	1620
cttttccctg	ttctaattgaa	ttattgtcct	atatctgctg	tgcaagttag	tgacatatata	1680
cagcaattaa	atatatgaat	tggtacatat	aaagatttga	ctaaaactcg	atgtaaaaat	1740
aagtgttcta	cattcaattt	ccagtgttag	aaacagtgtc	gacttgaaca	gagtgcacaga	1800
attccatctt	tccctatttt	tgacagcttt	aaactttata	ttttcttctt	ttcttgtgag	1860
ccgtcattaa	cttggtttctc	aaagccattc	ccgtattacc	catcttgca	acgcagacag	1920
atttgggaat	tgcgggtcag	agttgtattg	gacacatccc	cccagcccac	atgagatcct	1980
tttaactctat	tgcataattaa	ctagttttaa	gtacaataatt	cctacttcat	ttaaaacct	2040
taatcaaaaga	atgagtttga	aaatgaacaa	aatgcaaaact	tacagttaga	aataattgta	2100
gtgtcttttag	ttttgggttag	gagtcgggtt	cttggttggt	aaactcaaga	ttgtgaacag	2160
ttttaattca	cttggtttatt	tccaatagag	atttcagggt	tacatttgaa	ttcagaaaca	2220
aagttttctt	tctcattaca	gagaacacta	aactctacat	ctcccttccc	gagcaaggag	2280
ctggccgaag	ccacaaaaac	attgctgcat	agtcttggga	ctctggccca	ggaggtaagt	2340
tgtgtctttc	cagtaccagg	aagcggatca	tccactgtat	cagtattttc	attcctgagt	2400
ctggcaagag	gtccttttga	gttgaatatc	acatgggatg	taatatcaat	tttcaaagta	2460
taagtgatgt	aaacaataat	gttttgattt	ccttatttta	gaaatgaaga	aacctaaaac	2520
tcatagatgt	ctcagagcta	attggttagt	ggctaacagc	tggatatcta	gtttagaacc	2580
ttctccattt	tttctttttg	cccctaggta	atcatacatt	tgtaaagagg	agaattatct	2640
ctgccactgc	ccatgcactg	cttttgtctg	accagcaatt	tctccatatt	gcttcttcag	2700
tagcaaggcc	aatcattttta	ccaacacaca	tgttgcttaa	ctaacaggaa	taacgtggta	2760
cccctaattc	agccctttcc	cttgaaagca	tctggcttct	gaggttcaac	tatgggaata	2820
tggtctctta	atgaacatta	agttgagttt	gccttttagg	tccacatgtt	gacaaatgta	2880
tcagagtaat	ctctgtccta	ggatcagagg	gcctgtaggc	acttgcaaaa	gcagttagct	2940
ctgactccca	gccagtgcac	actccacctt	tctgactccc	agccttgtct	caaattaggc	3000
ttggaagcga	ggaactgtct	ggtgtccccc	agcataaggaa	gctgagccag	ggggcagtcg	3060
tcacaaacaa	tacagacttt	aacgtgtagg	atattggaaa	ataataattt	gtgggggaat	3120
tgtctcagac	ttgggtccacc	cttatttttta	gctgcttctc	taatccggtt	ttcttttttt	3180
ggtgcttgta	tctaacctac	ccattttttg	gtgcttgcat	cattttttca	aatatcaaaa	3240
acgaacttta	tgttttctaa	caatgaaagt	attgcatgtt	cattgtggaa	aatgctgaag	3300
acttggaaaa	tacaaaaatg	ctgagatcaa	acactattga	tacgttagtg	tatttcttcc	3360
tgtcctgttc	tactttcttt	ctttgaattc	tgtcacgtg	tttctgactg	atgaggctctg	3420
acttttgggt	tctttttcca	gaggagaagc	cttctttcag	cttgccattt	gttaccctgg	3480
ttatgaaggc	tggtaacctt	ttttactagg	tagagaagct	ggaccaactg	gggttcttcc	3540
agggggagaa	tgagaaagag	aaactgtttt	gcaagtccgt	agctatttct	ctagggccct	3600

gttagctgac	attgacatgc	cttgcatgtc	tctgcagatc	ccctcgcagc	cctctgtccc	3660
ttgttcattt	ctggccttag	agaaagcaaa	gcagggtctg	taacagggga	ggctgcctct	3720
aaactcaggg	tttggttaca	gctgttttca	cttacatcac	tggccctggg	tttttttttt	3780
tttctggcat	taaaaaaaaa	aattggaagc	aggtgatgtt	cccatgtctg	atgtgggtgga	3840
aactctccaa	gtgaacaata	tacgtttttc	ttggcagctg	tttcttgtgc	cctgcttgct	3900
cctgggtccag	gacaagcaag	gaccatctgc	ctctttcaat	agaacacctc	cagatccctt	3960
tgatcaaaaag	ttactcattg	tctgacttgc	tattttctgtg	agataaatgg	gagaagatca	4020
ataaatgcac	ttgtttgtcc	agtcagcgtg	tggaaagtgtg	ataattttga	ccaaagcaca	4080
accctgaaaag	gaaaagaaaa	agggagtga	tgtcttctga	gaagctgcct	aggttcagac	4140
agtgtcaccc	atttccctgt	atgctccaca	tgacaaacct	gagtggtct	catcatgtcc	4200
attttgcaga	tggcaccaag	gctcagaaaag	gttaggcaac	ttttccagtc	acccaatgag	4260
ttaattgaca	aaactgggat	tcaaaccag	aactgttgga	ttccaaagcc	tgtgttgttg	4320
cctgcttcgt	gaaaaactcc	agtagcgact	ggaatagaaa	ggagaacctt	ccaagaaaga	4380
aaatacgcac	tagcagaacc	tggaaattgg	gaggaaatga	ggacttgagg	aataagatga	4440
atgaaagctg	acctgagttt	cacatctggg	tgatgggaag	ggaggacagg	gaggcagcat	4500
ctcagatgtc	caccacagcac	cgaccagctg	cctggcattg	ctaggtgttg	aggactcagc	4560
agtgaacacg	ctaacttctc	tgttttcttg	gggcacgtat	agggtgagag	acagaaacaa	4620
acaggtcagt	gtacaatgcc	acaggaggga	tatatgcagt	gaagaaaaag	cagggtaagg	4680
ggcatagagc	atgagaaggt	gcttttttta	aagggktga	ttaggaaagc	tctctctaag	4740
gtgacagttg	gacctgaagg	agatgatagc	atgtctgtgg	tgagggaagg	aaactccgaa	4800
caggaagaat	ggcagataca	aagacattga	tgctagagca	tgccaaagga	atgtgtttaa	4860
ggaccagggga	aagtgagcaa	gtggtggggg	gaggagagga	gctcagagca	ggaggagggtg	4920
agtgccatac	aggcctggca	agactttgga	ttcctgctgg	gtgagatgag	aatccagcgg	4980
agggcttgag	ggagggggaca	tgatgtgatc	tagagttag	actgtttaca	ctctgggtgt	5040
tgggttgaga	agagactggg	atgggggaaa	gggaggacaa	aggacattgt	gctggattga	5100
gaaagcagta	agtcagtttc	attcattcac	tcaaccgatg	atgttcaa	accaccatca	5160
tccgtgggct	aaaggatgaa	gagccatccc	tccctgagag	tcaggaagca	cttcccagat	5220
aaagtttgga	gtgtgagctg	aggtgtagga	gaaagagtaa	gagtttacc	ctgaaacggg	5280
tgtcgggaag	agtcaatagt	ttggaataac	tcaataattt	atggtgcttc	tttagaaaga	5340
tttctggctg	ttatgtggga	agaaatttkt	tttttggatt	ggggagtggg	gggttggtgg	5400
tgaggctgcc	tgtggaaaga	gaagtgagtg	ttttgactca	ctgttattta	aaaactctcta	5460
gggctgttcc	aataagcaac	aaaaggcaaa	atggcctggg	tctctgtccc	ctttctgtct	5520
gtatgcctcg	tacaggttat	gaaaagaaaa	agttgggaaa	agctgtccac	ctcaccta	5580
tgtgttcttg	tggagtgtgc	tagatgcccc	ctctctggag	aaaaaaaatc	cttgtggcct	5640
ctgaccacac	tctggagagc	ctagttccct	tctggaggca	gaaggcaaag	cttaggacct	5700
agagagtgtc	ggaccacgcc	actcacagga	accagcaggc	tgtgagggtg	aaagctaggc	5760
atatggagct	ttccaggctg	ggtgcagggc	ctcgtggccc	ttccctccc	ctctgtgctc	5820
tatagctcag	tcttcccagg	cgggtgtgaac	acgcagtgc	atttccagga	atacagggat	5880
ttattaatga	tttcttgtga	aatgtttgga	aatacaaagt	actctataaa	tatttcataa	5940
tagcattggg	gctgagaact	ccacaaagtg	ccggaataca	tttgcatgta	agacagaacg	6000
ctgcctgggt	cattgatgcc	tgttgagtgg	cagtcacaga	cactgcctag	ggtttctgac	6060
tcacgtgtt	gggactgttc	tatgcagggc	accctcttgt	gtggcatagg	atthgtgcct	6120
caccacacac	tgtttagct	ttgtgtctt	gatgatgagt	agagggcagt	gtccaggcca	6180
tggtataagc	atctactgcc	ccccagggtt	acaaaaacca	agccaaagtg	tgtctcagcg	6240
agctccgtga	agcatggaga	agttgagtac	tcagagacat	gacgtgactt	ttcaaaggct	6300
gtaagctgac	gagggacata	gctagggttc	agacttgagt	ttttcttttt	cttttctttt	6360
ttcttttttt	tttaagactg	agtcttgctt	ttgtcgccca	ggctggattg	cagtgggtgct	6420
tggctcactg	caacctctgc	ctcccgggtt	caagcaattc	tctgacctca	gcctcccag	6480
tagctgggat	tacaggcacc	tgccaccatg	cctggccaac	atthttgtat	tttttttagta	6540
gagatgggg	ttcaccatgt	tggccaggct	ggtcttgaac	tcctgacctc	aggtgatcca	6600
ccgcctcga	cctcccaaag	tactgggatt	acagggtgtg	gccactgcac	ccggcccaga	6660
ctcgagtttt	tcatcttaat	gctttttcat	tgcttgacac	tttactgaga	ccaagatagg	6720
gaacttcaca	tacagtacct	tttctcccaa	ggcggaagag	ggctgttcaa	tttctacact	6780
agagttcggg	gagttttaga	aatgagtcag	ttatcgagga	tgagagcagt	tcctgatagg	6840
ctcaaccaca	atgagatgta	gctgttcaga	gaaagcattc	ttttatctat	aaactggaag	6900
ataatcccgg	tgaaacgaag	cccagcccca	ggggcttcac	taactccagg	ctgtgcttct	6960
caaacttttag	tgagcatagg	aatcacctgg	gcactcttgtg	aagctgtaga	tttgaattct	7020

gcaggctggc	agaggggtct	cagaatccgc	atttccaaca	atgtctccag	taatgctgat	7080
gctgctcgtc	cctggaccac	agattgggta	gccaggttct	ggcaagctca	tcccaaggct	7140
ttgagatgac	atcagacaaa	atatgttctg	ggacatggct	tttgagaggt	caagaaaata	7200
agatgtttct	ttctctttct	atcccccaacc	cttgactgc	ccttttctcc	cttcccctac	7260
cctcctttct	gtccccatcc	ctgacgccag	ctgttcagca	tgagaagctg	gagtgcacatg	7320
cgacaggagg	tgatgtttct	gaccaatgtg	aacagctcca	gctcctccac	ccaaatctac	7380
caggctgtgt	ctcgtattgt	ctgcgggcat	cccggaggag	gggggctgaa	gatcaagtct	7440
ctcaactggg	atgaggacaa	caactacaaa	gccctctttg	gaggcaatgg	cactgaggaa	7500
gatgctgaaa	ccttctatga	caactctaca	agtgagtgtc	catgcagacc	ccagccctgt	7560
ccccaacccc	atccctccct	tagttctggc	cttggcctgt	gtcatctcct	ccctctgtag	7620
cagcggttaga	tgtctacatg	cccatttgcc	caccagactg	agctcttcct	agaggagaga	7680
ggcttctctt	gaatagctac	ctgtccccag	ttctctgaat	gcagcctggc	acatctcagg	7740
tgacacatgag	tgtttatcaa	tggaatgaat	gattgacagc	caaccttctg	gttttctggg	7800
ggatgtggaa	gggtgggttc	caggggtgatc	aagaatgaga	taatggcaga	aggacaaatc	7860
ctgcaagatc	tcacttatat	atggaatata	tgtaaggtag	aaagtgtcag	tttcacatga	7920
tgaataagtt	cctgggatct	tgatgtacat	cgtgatgact	atagttagta	acactgtata	7980
gtatacttga	aatttgctaa	gagagtagat	ccgaagtgtt	cacactacac	aaaaaaggca	8040
actatgaggt	gatggattta	ttaacagctt	gattgtgggtg	atccttttac	aaagtataca	8100
tatattaaaa	catcacattg	tataccttaa	atatatacaa	tttttatattg	tcagttgtaa	8160
ctcaaaaaag	ctagaaaagc	atttttaaaa	aggatgatgt	actggtctta	atattaccat	8220
tgagataaag	tttataataa	cataaaaaga	aataacagta	atgataatag	caacaacaac	8280
aacaacaaag	aactaacatt	taagtagaat	ttcttgtgca	ctgtgcattc	tgtttaagtt	8340
atctcatttt	accctcatga	taacctgcag	ggaagattct	ttaacccac	atttcatagg	8400
ctcagagagg	ttaagtgcct	tggttagagc	cacatcagag	ttaatccaca	agagccagga	8460
ttcaagccca	aatctgcctg	gatctgtgct	ctctaagata	actgttagtg	gtggcggtgtg	8520
tgttctcaca	ctcagacatt	tgatctgccc	tttgtttccc	attcttagct	gcaaggcagt	8580
gttaaagaac	cctgtgtctc	catatccact	ccccacactt	aagcactttt	gtgggcccgt	8640
gtgcccgtatg	cctcgtggca	gcagggatcc	aatgtcacag	ttttaggcag	tggcatcctt	8700
ttccttgaaa	acttgatgca	ggggaacctt	tctccatttc	caaccacagg	tgtgtctttc	8760
agacactgag	tgaggcaggt	tttgtacttt	attgtaacac	aagaaccttt	tcttctctgg	8820
agtaaagcac	tccagacatt	cgcaagttgc	tttacaagcc	ttaaaggat	ggtattgtag	8880
gcaactttta	ttaaatccca	tctcctcctc	tccccagct	tgcaagttga	cccaagggaag	8940
ccttcatttc	catgacagac	ttaattgtga	gggcatcctc	a		8981

<210> 21

<211> 20284

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(20284)

<223> n = a, t, c, or g

<400> 21

actgtgtag	caaggatggg	ctcgatctcc	tgacctcgtg	atccgcctgt	atcggcctcc	60
caaagtgcgtg	ggattacagg	cgtgaaccac	tgcgccctgt	tgagaatttt	ttttttttt	120
tttgggagaa	agagtttcgc	tcttggtgcc	cgggctagag	tgcaagtaca	caatctcggc	180
tactgcaac	ctctgcctcc	tgggttcaag	caattctcct	gcctcagcct	catgcgtcac	240
cacgcccagc	taattttgta	tttttagtag	agacagggtt	tctccatggt	ggtcaggctg	300
gtctcgaact	cccaacctca	ggtggttcgc	ccgccttggc	ctcccaaagt	gctgggattg	360
caggcatgag	ccactgcgcc	cagcccca	ttttggtttt	tgcttgaaaa	ctgaggctctg	420
aattcagcct	tctggttgcc	cctcaagagt	cagtttaaat	gttggtcatg	ttagttgtca	480
gtgaaaacaa	tggtagggct	ggcatgagag	tgtgaatctg	gatgggaggg	cttgtgcttc	540
atgaaaacat	ttttccagat	cagctcagtc	gtgagttatc	cgtcattgac	gttataataa	600
gctctgatta	tttatcaagc	atcattcttt	atagatatct	cagtttaatc	tgagataatc	660
ttctccacat	ctctccacat	agatgttatg	aattttactt	ttacagagga	gccaaactgag	720

gctcagataa	gttacttatt	atatgactag	tagtggtaga	gctggggttt	caactaagaa	780
ctctctggct	ccaaagccct	tgtaagtttc	tatcagtata	tgaccatgca	tatgagcatt	840
tgtctctcct	cttcttcata	gctccttact	gcaatgattt	gatgaagaat	ttggagtcta	900
gtcctctttc	ccgcattatc	tggaaagctc	tgaagccgct	gctcgttggg	aagatcctgt	960
atacacctga	cactccagcc	acaaggcagg	tcatggctga	ggtaagctgc	ccccagccca	1020
agactccctc	cccagaatct	ccccagaact	ggggggcaaaa	aactcaaggt	agcttcagag	1080
gtgtgcgcta	agtatactca	cggctcttct	ggaattccca	gagtgaaaac	ctcaagtctg	1140
atgcagacca	gagctgggccc	agctccccag	tcgtgggtat	agaatcatag	ttacaagcag	1200
gcatttcttg	gggatgggga	ggactggcac	agggctgctg	tgatggggta	tcttttcagg	1260
gaggagccaa	acgctcattg	tctgtgcttc	tctcctttt	tctgcggctc	ctggctcccc	1320
acctgactcc	aggtgaacaa	gaccttccag	gaactggctg	tgttccatga	tctggaaggc	1380
atgtggggagg	aactcagccc	caagatctgg	accttcatgg	agaacagcca	agaaatggac	1440
cttgtccggg	tgagtgtccc	tcccattatt	acctgtgccc	tgcttgatac	tggagagggtg	1500
agtttctggg	cactttccca	ggtgtgagtg	aggtgagaat	tctttcagtt	tatctagctg	1560
ggggaatgta	gtgagcatag	ctaaagtcac	agggcaccac	ctctccagaa	gtacaggcca	1620
tgggtgcagag	ataacgctgt	gcatatcagc	atccatgcca	ctcacgggtca	aatagcagtt	1680
ttctgcaaaa	cttagtgagg	gctgggtgtt	ggaagtggag	ttgagtaatt	gcagtaccct	1740
attttctttt	ttgctgcagc	ctctcagcca	gccacagcat	ctccctgtgt	cttggtaggt	1800
tttggaagaa	agtgtgggag	caaaagcatg	atgttacatg	tagactggcc	tgagatactc	1860
attctcaggg	cactgtgtga	atgatgagct	gctgttactg	tgtggagggg	aaatgcactt	1920
agtgtctcag	agccacttga	aagggataag	tgctctagag	acaattgggt	tcaaattgtgg	1980
agcaggctga	gcaagaacag	aatgtctcct	ttgcctgagc	ctgagtgtctg	ttaatcacat	2040
cttctctgct	tgggctgagt	tagagaatca	ttagactatt	tctgttttcc	atgggtgaggg	2100
aggcctcttc	cttttgtctc	tgctccccct	aagaagcagg	tgaggatttt	gccagggtttc	2160
ttgttttgaa	ccttattgac	tttaagggcg	gctgggtttt	agagactgta	cctacctagg	2220
gggaacactt	ccgaagttta	ggactattcc	ctgatccgct	gggaggcagg	ttactgagga	2280
agtcccttta	aaaacaaagg	agtttatact	gagaaaagca	taaacagtga	tttgtatgga	2340
ttcacactga	ctaataatagc	tcatgccatt	aaagtggggt	ctcttctcta	aaggagggtt	2400
atatgatcta	gccccgtaga	cctaagtgtg	gtttcagacc	tgttcttctc	ggtcctctcc	2460
ttggaatcca	tcttctact	agttggactt	tttctgtttg	tctggctctc	agaggattat	2520
aggaggccct	gtgaagtgac	tcagtgaatt	ttgatttgtg	ggcaagtaga	tggttcccta	2580
gtctgaaatt	gactttgcct	taggtgcttc	aattcttcat	aagctcccag	ttcttaaagg	2640
acaagatcct	tgtaaacatg	gcaatggcat	tcattaggaa	tctagctggg	aaaatccagt	2700
gtgtatgctt	ggaaatgagg	gatctggggc	tggagagaaa	ggcatgggca	tgcttgggag	2760
ggacttgtgt	gtcaagctga	ggacctttac	tttaagctct	aggggaccag	gcaaggggag	2820
atgtagatac	gttactctga	tgggggtggat	gaattgaaga	aggatgaggc	agaatgaag	2880
gcagagacca	gggaggaggc	tctccaagtg	gccaaaggcat	aaagcaagaa	atgaggcctg	2940
gtgactgctt	agtggcagag	cagtgaagaa	gagggaggca	tcaaagttag	tctcgatttc	3000
tagctgggtg	ggtggtagcg	atgtccagta	ggccagtggc	tactgaggtc	tgcaagtggag	3060
gaggggtggt	gggctggaga	cagatgatga	gggagtcac	agcctgtggg	tggagaaaaa	3120
gggaacctct	tccaactgtt	ttctttgctt	cttccctctc	tttctctttt	tttttttttt	3180
tggacagagt	cttgcctctg	cacccaggct	gaaatgcagt	ggcatgatct	tggctcacca	3240
cagcctccgc	ctcctgggtt	caagcaattc	tctgtctca	gcctccagag	tagctgggat	3300
tacaggcaca	tatcactgtg	cccggctaatt	ttttgtattt	tcagtggaga	tgggatttca	3360
ccatgttggt	cgggctggaa	tgaactcctg	acctcaagtg	atccacctgc	ctcagcctcc	3420
caaagtgttg	ggattacagg	catgagccac	cgcgccccgc	ctttcttccc	tctcttaaag	3480
agtgtttatt	taattccaca	aacatgagct	tgtaaccccc	tgtagcctgg	catctcttac	3540
acgagggtgat	ggctgaggct	tctgcttctg	ctggggtagc	tctgatcttt	ctgctttctc	3600
tggcactgtc	tacccatgtt	gcctcacccc	acagggtccca	gggcacctct	ctcgggcaag	3660
tcttggaacc	ctctgacact	gattttgctct	cttttctgag	ctgcttttag	ccacccatcc	3720
tcgggacctg	ttttctctct	gcctccaccc	ctgcgggcag	tcttaggtct	cctgcccctc	3780
acgagcaccc	cagagaggcc	acgtgctcag	tgatctcagt	gggcgcacct	ttctagtctt	3840
gctattcttt	ttggccatgt	tgttcagaaa	ccatactggg	cagggccgac	ttcacccata	3900
aggctgcgtc	tcttcaactc	gcttttgttt	gttccaaata	aagtggcttc	agaattgcta	3960
accctagcct	ctgtgaactt	gtgagggtaca	atthttgtgtc	tgttatgtta	acaaaaatac	4020
atacatacct	tcttgggtgat	ggtataaatt	gctattctct	attggaaagc	aatttggaat	4080
gaaaatttaa	agaaccattt	taaaatatgc	tatcctgcgt	acctccattc	cacccacccc	4140

cagggatgta	gcctactgaa	ataattttta	agaagtcacc	atatgagaga	aaatgttatt	4200
gctatattgt	tattgtgaga	aattggaaat	agactaaatg	ttcagcacta	taggaataat	4260
taatgaaatt	acataactc	tatacaatca	ttatgctgcc	attgaaataa	taaatacaaa	4320
ggcgcaaggg	gggaaaagct	tataatgtta	gtgaaactaa	gactgatttt	tttataaagc	4380
agcagttttc	agacccttgg	agactccaat	tcggtagaac	cagagcttca	tcttctctgt	4440
cgaagctgtg	acaggagttg	caaatgcctc	tccttttttg	tgagtttgca	gctgctgttt	4500
ttccggcagc	acatctgtgc	aggcctctgc	ctcggccctc	ctggatctgc	tgattgagca	4560
gcggattgat	ctgtccttct	ctttcgtgtt	gacccatgtg	aggaaccaac	tggaagggga	4620
acaagaaatg	gaaataggcc	tcctttgcat	catgacctgt	acatcctgca	attggaaaag	4680
attgtacttt	agttggttta	accagcagca	ttatttttct	aaactaagca	gtaagaagga	4740
attaggtttt	atgtgggatc	aacagactgg	gtctcaaaag	aggaaggtga	tagaacacag	4800
tggggagggg	gaggtgcact	agaaaagag	ggcctatgct	ttcattctgg	ctttgctact	4860
taataagctgt	gtgacccaat	cttagagact	taacctctct	gaacttccat	tttctcatgt	4920
ataaaatggg	aaatattaaa	ggatactcac	tgggctgggtg	gcttgtgcct	gtaatcccag	4980
cacttggggg	ggttgaggtg	ggaggatcac	ttgagcccag	gtgttcaaga	ccagcccagg	5040
caacatggca	agactctgtc	tctatgaaaa	aattaaaaat	tagccagggtg	tggtgggtgtg	5100
cacctgtagt	cttagctact	tggtaggctg	agatgggagg	atcacttggg	cttgggagggt	5160
caaggctgcg	gtgagctgtg	attccatcac	tgactccag	cccgggcggc	agagcgagac	5220
actgaatcca	aacgacaaca	acaacaaaag	gcaaaaaaat	aaaagtgcc	tctttatgga	5280
gttgtgtaag	gtgaagcata	tacactattc	aacatagtaa	ctatataaag	gaagtattgt	5340
tggtgttact	gtagttaata	ccattaagtg	agatgtttcg	tatagtggaa	agcacatgga	5400
ctctgaattc	agactggtct	gactttgagt	ctcagctcca	catctagtaa	tactatgacc	5460
aagccctggg	taaaatcatg	tttttttttc	ttcagcctca	gtcttctcac	atataaaata	5520
gggacactgt	cattttacctc	agttttctgt	gaggataaaa	caacgacagt	gtatatgcaa	5580
gtattttgta	aattttgtag	tgctcctcaa	gatttagttg	gtgtttacta	cttggtacttt	5640
ctcactggaa	tggcagatgc	tggtggacag	cagggacaat	gaccactttt	gggaacagca	5700
gttggtggc	ttagattgga	cagcccaaga	catcgtggcg	tttttgcca	agcaccacaga	5760
ggatgtccag	tccagtaatg	gttctgtgta	cacctggaga	gaagctttca	acgagactaa	5820
ccaggcaatc	cggaccatat	ctcgtttcat	ggagggtgaat	ctggtgctgg	gatcatttag	5880
aaaagactta	acggcttctt	tctctgagac	gttacaataa	ggttcaggca	ggaggcaagt	5940
ttagaaataa	tgtatagtct	catttacaac	actatccctc	aagcctaaca	caggatttga	6000
taacaaaagg	cacttaataa	atgttagttg	agtgggtgaa	tgagtaaata	aactctagct	6060
ttagtaaat	aactctagct	tattctatat	aggctcaaga	gaatatttct	acccattttc	6120
ttctaggttt	tcctatctca	gtgactaatg	gtagcaaagc	attcccttaa	aaaggcatta	6180
tttgtgaaac	ttayctaaaa	tcgaattcgg	gtccaattaa	atttttgaaa	ttttatatta	6240
aaaattatat	tagtagggat	gggtaagagg	tgttttggtc	tggttggttg	gttagttgct	6300
atgactcaga	attgctaaga	aaacagaaaa	gtaagataag	atcattgttt	taacctcttt	6360
tcctccacaa	aatcaataaa	taacatatcc	ctaaattact	cttagaattt	ctcttaaatt	6420
gcagtgaaaa	accaaaatcc	ttcattcttg	gttgaagggt	ggaaaactac	gttagagagg	6480
attagagaga	gaggatgagc	aatcgtgtag	tcagcccttg	cctcctagtg	taggatttgt	6540
ctcagccact	gcttgttgct	ctggctgcca	acgttctcat	gaaggctgtt	cttctatcag	6600
tgtgtcaacc	tgaacaagct	agaacccata	gcaacagaag	tctgggtcat	caacaagtcc	6660
atggagctgc	tggtgagag	gaagtctctg	gctgggtattg	tgttcactgg	aattactccm	6720
rgcagcattg	agctgcccc	tcatgtcaag	tacaagatcc	gaatggacat	tgacaatgtg	6780
gagaggacaa	ataaaatcaa	ggatgggtaa	gtggaatccc	atcacaccag	cctggtcttg	6840
gggaggtcca	gagcacctat	tatattagga	caagaggtag	tttattttta	ctaaaaattt	6900
ggtagaaaatt	tcaacaacaa	caaaaaaact	caacttgggtg	tcatgatttt	ggtgaaattg	6960
gtacatgact	tgctggaagg	tttttcatag	gtcataaaat	aacagtatct	tttgatttag	7020
catttctact	caagggaatt	aattccagga	attttgggtg	caggcacctg	taatcccagc	7080
tactcgggag	gctgaggcag	gagaattgct	tgaacccagg	aggcagagggt	tgacgtgagc	7140
taagatcgca	tcattgcact	cccgcctggg	caataagagt	gaaactccat	ctcaaaaaaa	7200
aaaaagatac	aaaaatagaa	aaaggggctt	ggtaagggta	gtagggtttt	gggcaatttt	7260
tttttttttt	ttttttttta	ttgtatgggt	ctaaagggaat	ggttgattac	ctgtgggttg	7320
gttttaggta	ctgggaccct	ggtcctcgag	ctgaccctt	tgaggacatg	cggtagctct	7380
gggggggctt	cgcctacttg	caggatgtgg	tgagcaggc	aatcatcagg	gtgctgacgg	7440
gcaccgagaa	gaaaactggg	gtctatatgc	aacagatgcc	ctatccctgt	tacgttgatg	7500
acatgtaagt	tacctgcaag	ccactgtttt	taaccagttt	atactgtgcc	agatgggggt	7560

gtatatatgt	gtgtgcatgt	gcatgcatgt	gtgaatgatc	tggaataaag	atgccagatg	7620
taagttgtca	acagttgcag	ccacatgaca	gacatagata	tatgtgcaca	cactagtaaa	7680
cctctttcct	tctcatccat	ggttgccact	tttatctttt	tatttttatt	tttttttttg	7740
agatggagtc	togctctgac	gccaggctg	gagtgcagtg	gctcgatctc	ggctcactgc	7800
aacctttgcc	tcccgggttc	aagctattct	cctgcctcag	cctccacagt	agctgggact	7860
acaggctcat	gctgccacgc	cgggctgact	ttttgtattt	tagtagagac	gagggttcac	7920
catgttacct	aggctagact	tcaactcctg	agctcaggca	atccaccctc	cttggcctcc	7980
caaagtgtg	ggattacagg	tgtgagccac	tgcacccagc	ccaccacttt	aattttttac	8040
actctaccct	tttgggtcaa	atttgtcaa	tctgcaagct	taaaatgtgt	catgacaaac	8100
acatgcaagc	acatactcac	acatagatgc	agaaacagcg	tctaaactta	taaaagcaca	8160
gtttatgtaa	atgtgtgcac	ttctttctcc	taggtggtaa	accacatttc	aaaacaaccc	8220
aaataaaact	gaacaaagct	tcttctctct	agacttttta	gaaaatcttt	cagtgtctgag	8280
tcactaagct	gccaagttct	cattgtggga	actatgcctt	tggatgtaat	gatttcttct	8340
aagacaatgg	gcggagggtg	agttattgca	gacatctgaa	atatgtaatg	tttcttccag	8400
attctggaaa	ttctcttatt	ctctgtggtt	ggtggtggtg	gtgggatgtg	tgtgtgtgtg	8460
tgtgtgtgtg	tgtgtgtgtg	tgtgtaggga	tcaggatgcg	ggaggagctg	ggttctgctt	8520
gtattgggtc	tctgttttgc	attgaatagt	gtgtttcctt	gtatggctat	ctatagcttt	8580
tcaaggtcac	cagaaattat	cctgtttttc	accttctaaa	caattagctg	gaatttttca	8640
aaggaagact	tttacaaga	cccctaagct	aagggtttact	ctagaaagga	tgtcttaaga	8700
cagggcacag	gagttcagag	gcattaagag	ctggtgcctg	ttgtcatgta	gtgagtatgt	8760
gcctacatgg	taaagctttg	acgtgaacct	caagttcagg	gtccaaaatc	tgtgtgcctt	8820
tttactttgc	acatctgcat	tttctattct	agcttggaa	ctgaaacatt	gacaagagct	8880
gcctgaaatg	tatgtctgtg	gtgtgattag	agttacgata	agcaagtcaa	tagtgagatg	8940
accttggaga	tgttgaactt	ttgtgagaga	atgagttggt	tttttgtttt	ggtttttagt	9000
actttaacat	aatctacctt	tagtttaagt	atcgctcaca	gttacctagt	tactgaagca	9060
agccccaaa	gaaatttggg	ttggcaacac	tttgttagcc	tcgtttttct	ctctacattg	9120
cattgctcgt	gaagcatttg	atcatacgta	catttcagag	tctagagggc	ctgtccttct	9180
gtggcccaga	tgtggtgctc	cctctagcat	gcaggctcag	aggccttggc	ccatcaccct	9240
ggctcacgtg	tgtctttctt	tctccccttg	tccttctctg	gggcctccag	ctttctgogg	9300
gtgatgagcc	ggtcaatgcc	cctcttcattg	acgctggcct	ggatttactc	agtggctgtg	9360
atcatcaagg	gcactcgtgta	tgagaaggag	gcacggctga	aagagaccat	gcggatcatg	9420
ggcctggaca	acagcatcct	ctggtttagc	tggttcatta	gtagcctcat	tcctcttctt	9480
gtgagcgctg	gcctgctagt	ggtcactcctg	aaggtaaggc	agcctcactc	gctcttccct	9540
gccaggaaac	tccgaaatag	ctcaacacgg	gctaaggggag	gagaagaaga	aaaaaaatcc	9600
aagcctctgg	tagagaaggg	gtcatacctg	tcatttctctg	caatttcatc	cattttatagt	9660
tggggaaagt	gaggcccaga	gaggggcagt	gacttgccca	aggtcaaccc	agccgggtag	9720
cagctaagta	ggatgagagt	gcagggttca	tgttttccag	ataaccacat	gctcaactgt	9780
gccatgctgt	ctcattggta	gtggttcattg	gcagcatctg	aaagctattt	attttcttag	9840
atatattggg	tggcgattct	tcctaagttt	ctaagaacaa	taatcagaag	gatatatatt	9900
gttgagagg	agactgtctg	gaagcagagg	ctgaaataga	gtttgatgta	tgggtattta	9960
tgagggctca	atacctatgg	aagagatatg	gaagatgcag	gattgggcag	agggaggagt	10020
tgaactgtga	tatagggccca	accccgtagg	gcactctaga	gaatatgcag	cttgttggag	10080
ttgttcttca	tcgagctgaa	acatccagcc	ctttgtgctc	ccccaggcc	tcctcctga	10140
caccacctac	ctcagccctc	tcaatcaatc	actggatgtg	ggctgccctg	ggaaggctcg	10200
gccccagggc	ctacatggct	ctctgctgct	gtgacaaacc	cagagttgct	gatgcctgag	10260
gccgtctact	gacagctggg	caacaaggct	tccttgaatg	gggactctgg	gcagtgcagt	10320
tttgtgtctg	aaccatacat	taatatattt	atatccgaat	tttctttctc	tgcaagcatt	10380
tcatataaag	acacatcagg	taaaaataaa	tgtttttgaa	gcaaaaggag	tacaaagaga	10440
taagaactaa	ctaatttaaat	actagttacc	atctgttaca	aatagttcct	actgattgcc	10500
aaggactgtt	taaacacatc	acatgggctt	cttcttctat	cctcactaac	cctttttaaca	10560
gacaaggaaa	tgaggctcag	gaagggtcaag	gactttattg	aggttccaca	gtaggataca	10620
gttcttgcta	aaagcaaccc	ctccctcatg	ctctgttata	taactgcaag	gggaagggtca	10680
gtggcagagg	tagtgggtccc	atgggttggtg	cataagagct	gctctgagac	aactgcattgc	10740
tgggtgggtcc	tgcagacatg	tacctatcag	ccggagatag	gctcaaaata	tccacaagag	10800
tttggatgat	tgtgggaatg	cagaatccat	ggtgatcaag	agggaaagtc	aagttgcctg	10860
gccattttcc	ttggctttta	gacagaaaag	ttacgtggga	tattatctcc	cacagctctt	10920
ctgtggtgcc	accagtcata	gtccttatat	aaggagaaac	cagttgaaat	tacctattga	10980



agaaacaaag	agcaaactcg	cccactgaaa	tgcgtagaaa	gccctggact	ctgttgtatt	11040
cataactctg	ccattatfff	tctgcgtagt	tttgggtaag	tcacttatct	tcttttaggat	11100
ggtaatgatc	agttgcctca	tcagaaaagat	gaacagcatt	acgcctctgc	attgtctcta	11160
acatgagtag	gaataaacc	tgtctttttt	ctgtagatca	tacaagttag	tgcttgggat	11220
tgttgaggca	gcacatttga	tgtgtctctt	ccttcccagt	taggaaacct	gctgccctac	11280
agtgatccca	gcgtgggtgt	tgtcttccctg	tccgtgtttg	ctgtgggtgac	aatcctgcag	11340
tgcttcctga	ttagcacact	cttctccaga	gccaaacctg	cagcagcctg	tgggggcatc	11400
atctacttca	cgctgtacct	gccctacgtc	ctgtgtgtgg	catggcagga	ctacgtgggc	11460
ttcacactca	agatcttcgc	tgtgagtacc	tctggccttt	cttcagtggc	tgtaggcatt	11520
tgaccttcct	ttggagtccc	tgaataaaaag	cagcaagttg	agaacagaag	atgattgtct	11580
tttccaatgg	gacatgaacc	ttagctctag	attctaagct	ctttaagggt	aagggaagc	11640
attgtgtttt	attaaattgt	ttacctttag	tcttctcagt	gaatcctggg	tgaattgaat	11700
tgaatggaat	ttttccgaga	gccagactgc	atcttgaaact	gggctgggga	taaatggcat	11760
tgaggaatgg	cttcaggcaa	cagatgccat	ctctgccctt	tatctcccag	ctctgttggc	11820
tatgttaagc	tcatgacaaa	ccaaggccac	aaatagaact	gaaaactctt	gatgtcagag	11880
atgacctctc	ttgtcttcct	tgtgtccagt	atgggtgttt	gcttgagtaa	tgttttctga	11940
actaagcaca	actgaggagc	aggtgcctca	tcccacaaat	tcctgacttg	gacacttcct	12000
tccctcgtac	agagcagggg	gatatcttgg	agagtgtgtg	agccccaca	agtgcaggtt	12060
gtcagatgtc	cccagggtcac	ttatcaggaa	agctaagagt	gactcatagg	atgctcctgt	12120
tgctcagtc	tgggcttcat	aggcatcagc	agccccaac	aggcacctct	gatcctgagc	12180
catccttggc	tgagcagggg	gcctcagaag	actgtgggta	tgccatgtg	tgtgggggaa	12240
caggattgct	gagccttggg	gcatctttgg	aaacataaag	ttttaaaagt	tttatgcttc	12300
actgtatatg	catttctgaa	atgtttgtat	ataatgagtg	gttacaaatg	gaatcatttt	12360
atatgttact	tggtagccca	ccactcccta	aagggaactct	ataggtaaatt	actacttctg	12420
caccttatga	ttgatccatt	ttgcaaattc	aaatttctcc	agggtataatt	tacactagaa	12480
gagatagaaa	aatgagactg	accaggaaat	ggataggtga	ctttgcctgt	ttctcacaga	12540
gcctgctgtc	tctgtgggt	tttgggtttg	gctgtgagta	ctttgcctt	tttgaggagc	12600
agggcattgg	agtgcagtgg	gacaacctgt	ttgagagtcc	tgtggaggaa	gatggcttca	12660
atctcaccac	ttcgggtctcc	atgatgctgt	ttgacacctt	cctctatggg	gtgatgacct	12720
gggtacattga	ggctgtcttt	ccagggtacac	tgctttgggc	atctgtttgg	aaaatatgac	12780
ttctagctga	tgtcctttct	ttgtgctaga	atctctgcag	tgcatgggct	tccttgggaa	12840
gtgggtttggg	ctatagatct	atagtaaaaca	gatagtccaa	ggacaggcag	ctgatgctga	12900
aagtacaatt	gtcactactt	gtacagcact	tgtttcttga	aaactgtgtg	ccaggcagca	12960
tgcaaaatgt	tttatacaca	ttgcttcatt	taattctcac	aaggctactc	tgaagttagtt	13020
actataataa	ccagcaattt	tcaaagtaga	gaactgtgac	tcaaagacgt	taagtaacca	13080
gctttgggtca	cacaactgtt	aaatgttggg	acgtggagggt	gaatccactt	cggttacact	13140
gggtcaataa	gcccaggcga	atcctcccaa	tgctcaccca	attctgtatt	tctgtgtcct	13200
cagagggggg	acaactagga	gagggtctgt	ttcctgagta	cagggttgta	ataattaaat	13260
atactagctc	taaggcctgc	ctgtgattta	attagcattc	aataaaaatt	catgttgaat	13320
ttttcttttag	tacttctttc	ttaatatataat	acatcttctt	gaccaagtcc	aagagggaacc	13380
tgcgttggac	agttttcata	tgagatcaaaa	ttctgagaga	gcaagattta	accctttttg	13440
gttcaccttc	tgatcctccc	ctaaggagggt	atacatgaaa	tatttattac	tcctgcctga	13500
acttctttca	ttgaatatgc	aattttgcag	catgcagatt	ctggatttaa	attctgagtc	13560
ttaacttact	ggctgaggga	ccttggtatg	gctccttate	cctcagtttc	ctcatctcta	13620
aaatggggat	ggcacctgcc	ccgtgggttg	ttggaaggac	ttacagagggt	gcagaatgta	13680
cgttgtacat	agcagggttc	agcaaatggt	agctccctct	ttccccacat	ccattcaaatt	13740
ctgttccctc	tccaaaggat	gtgtcaaggga	ggaaatggac	ctggctggga	aacctcaga	13800
atactgggat	gatgctgagc	ttggctcata	cctgtgcttt	gctttcaggc	cagtacggaa	13860
ttcccaggcc	ctgggtatttt	ccttgccacca	agtcctactg	gtttggcgag	gaaagtgatg	13920
agaagagcca	ccctgggttc	aaccagaaga	gaatgtcaga	aagtaagtgc	tgttgacctc	13980
ctgctctttc	tttaacctag	tgctgctgcc	tctgctaact	gttgggggca	agcgatgtct	14040
cctgcctttc	taaaagactg	tgaaaccact	ccaggggcag	agaaatcaca	tgcagtgtcc	14100
ctttccaaat	cctcccatgc	catttatgtc	caatgctgtt	gacctattgg	gagttcacgg	14160
tctcgatccc	tgagggacat	tttctttgtt	gtcttggctt	ctagaagagt	atcttttact	14220
tgccccctcc	caaacacaca	tttcatgggtc	tctaacaag	ctagaagaaa	gaggtaaaga	14280
caagcgtgat	tgtggaacca	tagcctcgct	gcctgcctgt	gacatgggtga	cctgtgtatc	14340
agcctgtgtg	ggctgagacc	aagtggctac	cacagagctc	agcctatgct	tcataatgta	14400

atcattaccc	agatccctaa	tctctctcttg	gctcttaact	gcagacagag	atgtccacag	14460
ctcatcaaag	gctctgcttc	tgggttcttt	gtgcttagag	tgggttctta	aatatttaaat	14520
agggtccctt	tctgccagtc	tcttctgtgc	ccatcccttg	attgcccttg	gtaaaagtat	14580
gatgccctt	agtgtagcac	gcttgccctgc	tgttccctaat	catcttctcc	tacctctct	14640
ttacacctag	ctcctgtttc	agtcacctag	aaatgtctac	agtcgctgga	atatgtcatg	14700
ttcttccaca	cctccatgcc	tttgtaggta	ctgtttgctc	tcacaggaga	actttctctc	14760
taacttgcc	atcttctcaa	ctcctccttt	ctctccaaga	tctagttccg	gatccctctc	14820
cctgagcatc	cctccttggt	tctcaggtag	tcagtcactc	tctgccctga	acttccatgg	14880
cacgtgaaag	aaaatctttt	tattttaaaa	caattacaga	ctcacaagaa	gtaatacaaa	14940
ttacatgagg	gggttccctt	aaacctttca	tccagtttcc	ccaatggtag	cagcatgtgt	15000
aactgtagaa	tagtatcaaa	accatgaaat	tgacataggt	acaattcaca	aaccttcttc	15060
agatttcact	agctttatgt	gcgctcat	gtgtgtgtgt	gtgctgattt	agttctatgc	15120
aattttatca	tgtgtgaatt	catgtaatta	ctagctcagt	caagctgcag	aaatatctca	15180
ttgtcacaaa	gctccttcat	gctacccctt	aatggccaca	gccacctccc	ttcttctcca	15240
gttccctgaca	cctgtcaacc	actaatgcgt	tccctgtttt	tacagtttta	ttatttctag	15300
aatgttacat	aaatggaacc	atacagtagg	tatccttttg	atactggcct	ttttttttt	15360
ttcactcagc	agtattccct	tagatctatc	caagttgtgt	gtgtcaacag	ttcattcctc	15420
ttcactgctg	agtagtgctt	cctgggaggg	gtgtatcaca	gttccatggc	atttttagat	15480
gtatttttta	aacagctttc	agcatcctct	attttaattg	ttcatcaagt	cctttttccc	15540
aatagactct	gaatgctcct	ttatcatcgt	attcccatca	ccaacatcag	tacccaaata	15600
ggccctaaat	aaacatttat	agcctcctgc	ctgcctgaga	aaccagggtg	gacatggaga	15660
gaaggcactt	ctgaaagtgc	aagcgcagtg	csctgtgtcc	ttacactcca	ctcctcagtg	15720
ctttctgtgg	gttcatttct	gtcttctctc	ctgtcacagt	ctgcatggag	gaggaaccca	15780
cccacttgaa	gctgggcgtg	tccattcaga	acctggtaaa	agtctaccga	gatgggatga	15840
agggtggctgt	cgatggcctg	gcactgaatt	tttatgaggg	ccagatcacc	tccttctctg	15900
gccacaatgg	agcgggggag	acgaccacca	tgtagaaga	gggtgtgggt	cccgcagaat	15960
cagccacagg	agggttctgc	agtagagtta	gaaatttata	ccttaggaaa	ccatgctgat	16020
ccctgggcca	agggaaggag	cacatgagga	gttgccgaat	gtgaacatgt	tatctaata	16080
tgagtgtctt	tccacgtgct	agtttgctag	atgttatttc	ttcagcctaa	aacaagctgg	16140
ggcctcagat	gacctttccc	atgtagttca	cagaattctg	cagtggctct	ggaacctgca	16200
gccacgaaaa	gatagattac	atatgttggg	gggagttggt	aattcccagg	aactctgtct	16260
ctaagcagat	gtgagaagca	cctgtgagac	gcaatcaagc	tgggcagctg	gcttgattgc	16320
cttccctgcg	acctcaagga	ccttacagtg	ggtagtatca	ggaggggtca	ggggctgtaa	16380
agcaccagcg	ttagcctcag	tggcttccag	cacgattcct	caaccattct	aaccattcca	16440
aagggtatat	ctttgggggg	tgacattctt	ttcctgtttt	ctttttaatc	tttttttaa	16500
acatagaatt	aatatattat	gagcttttca	gaagattttt	aaaaggcagt	cagaaatcct	16560
actacctaac	acaaaaattg	tttttatctt	tgaataatat	gttcttggtt	gtccattttc	16620
catgcatgcg	atgttaggca	tacaaaatac	attttttaaa	gaatactttc	attgcaaatt	16680
ggaaacttcg	tttaaaaaat	gtcatacta	aaattggcat	ttctaaccga	taggcccact	16740
tgtagtatt	taccgaagca	aaaggacagc	tttgctttgt	gtgggtctgg	tagggttcat	16800
tagaaaggaa	tgggggcggt	gggagggttg	gtgttctgtt	ctctctgcag	actgaatgga	16860
gcatctagag	ttaagggtag	gtcaaccctg	acttctgtac	ttctaaattt	ttgtcctcag	16920
gtcaatcctg	accgggttgt	tccccccgac	ctcgggcacc	gcctacatcc	tgggaaaaga	16980
cattcgctct	gagatgagca	ccatccggca	gaacctgggg	gtctgtcccc	agcataacgt	17040
gctgtttgac	atgtgagtac	cagcagcacg	ttaagaatag	gccttttctg	gatgtgtgtg	17100
tgtcatgcca	tcatgggagg	agtgggactt	aagcatttta	ctttgctgtg	tttttgtttt	17160
ttcttttttt	cttttttatt	tttttgagat	ggagtctcgc	tctgtagcca	ggctggactg	17220
tagtggcgcg	atctcggtc	actgcaacct	tggcctccca	ggttcaagcg	attctcctgc	17280
ctcagcctcc	cgagttagctg	ggactctagc	cacacaccac	catgcccagc	taatttttgt	17340
gttttttagta	gagacggggg	ttcaccatgt	tggccaggat	ggtctcaatg	tcttgacctc	17400
gtgatccgcc	cacctcggtc	tcccaaagt	ctgggaacac	aggcatgagc	cactgtgtct	17460
ggccacattt	tactttcttt	gaatatggca	ggctcacctc	cgtgaacacc	ttgagacct	17520
gttggtcttt	gatttttagga	gaagtgggag	gtgaatgggt	gagctgtaga	ggtgacatca	17580
gccagccag	tggatggggg	cttgggaaac	attgcttccc	attattgtca	tgctggaggg	17640
ccctttagcc	catcctctcc	ccccgccacc	ctccttattg	aggcctggag	cagacttccc	17700
agacctggta	gtgcttcagg	gccctgggat	gatggacct	tatttgctgc	ttaagacatt	17760
tgctccact	caggttgtcc	catcagccat	aaggccccc	gggagcccgt	gtgatggagc	17820

agagagagac	ctgagctctg	caatcttggg	caaggctttt	cccttatgtt	tcttcttata	17880
taaagtgaac	agctggggct	catgtgctcc	ctcctcatct	aaagtgaaca	catggggctc	17940
atgtgcaggg	tcttccccgc	tttcagagcc	tgaggctccc	tgaggctcag	gaaggctgct	18000
ccagggtgagt	gccgagctga	cttcttggtg	gacgtgctgt	ggggacagcc	cattaaagac	18060
cacatcttgg	ggccctgaaa	ttgaaagttg	taactgcctg	gtgcatgggtg	gccaggcctg	18120
ctggaaacag	gttggaagcg	atctgtcacc	tttcactttg	atttcctgag	cagctcatgt	18180
ggttgctcac	tgttgttcta	ccttgaatct	tgaagattat	ttttcagaaa	ttgataaagt	18240
tattttaaaa	agcacgggga	gagaaaaata	tgcccattct	catctgttct	gggccagggg	18300
acactgtatt	ctggggatat	cagtagggcc	cagagctgac	ctgcctccct	gtccccaggc	18360
tgactgtcga	agaacacatc	tggttctatg	cccgttgaa	agggctctct	gagaagcacg	18420
tgaaggcgga	gatggagcag	atggccctgg	atgttggttt	gccatcaagc	aagctgaaaa	18480
gcaaaaacaag	ccagctgtca	ggtgcggccc	agagctacct	tccctatccc	tctccccctc	18540
tcctccggct	acacacatgc	ggaggaaaaat	cagcactgcc	ccagggtccc	aggctgggtg	18600
cggttggtaa	cagaaacttg	tccctggctg	tgcccctagg	tcctctgcct	tcactcactg	18660
tctggggctg	gtcctggagt	ttgtcttgct	ctgttttttt	gtagggtggaa	tgagagaaa	18720
gctatctgtg	gccttggcct	ttgtcggggg	atctaagggt	gtcattctgg	atgaaccac	18780
agctggtgtg	gacccttact	cccgcagggg	aatatgggag	ctgctgctga	aataaccgaca	18840
aggtgcctga	tgtgtattta	ttctgagtaa	atggactgag	agagagcggg	gggcttttga	18900
gaagtgtggc	tgtatctcat	ggctaggctt	ctgtgaagcc	atgggatact	cttctgttak	18960
cacagaagag	ataaagggca	ttgagactga	gattcctgag	aggagatgct	gtgtctttat	19020
tcactctttt	gtccccaaaca	tggtgcacta	aatttatggg	tagttgaaag	ggtggatgct	19080
taaatgaatg	gaagcggaga	ggggcaggaa	gacgattggg	ctctctgggt	agagatctga	19140
tgtggtacag	tatgaggagc	acaggcaggc	ttggagccaa	ctctggcttg	gccctgagac	19200
attgggaaaag	tcacaacttg	cctcaccttc	tttgccgata	ataatagtgg	tgcggtacct	19260
catagaggat	taaattaaat	gagaatgcac	acaaaccacc	tagcacaatg	cctggcatat	19320
agcaagttcc	caaataaaat	gcgtactgtt	cttacctctg	tgaggatgtg	gtacctatat	19380
atacaaagct	ttgccattct	aggggtcata	gccatacagg	gtgaaagggt	gcttccagggt	19440
ctcttccagt	gcttaccctt	gctaatatct	ctctagtccc	tgtaactgtg	acaaatcaga	19500
actgagaggc	ctcacctgtc	ccacatcctt	gtgtttgtgc	ctggcaggcc	gcaccattat	19560
tctctctaca	caccacatgg	atgaagcggg	cgtcctgggg	gacaggattg	ccatcatctc	19620
ccatgggaag	ctgtgctgtg	tgggctcctc	cctgtttctg	aagaaccagc	tgggaaccagg	19680
ctactacctg	accttgggtca	agaaaagatgt	ggaatcctcc	ctcagttcct	gcagaaacag	19740
tagtagcact	gtgtcatacc	tgaaaaagggt	gagctgcagt	cttggagctg	ggctgggtgtt	19800
gggtctgggc	agccaggact	tgctggctgt	gaatgatttc	tccatctcca	ccccttttgc	19860
catgttgaaa	ccaccatctc	cctgctctgt	tgcccctttg	aaatcataatc	atacttaagg	19920
catggaaagc	taagggggccc	tctgctccca	ttgtgctagt	tctgttgaaat	cccgttttcc	19980
ttttcctatg	aggcacanag	agtgatggag	aaggctcctta	gaggacatta	ttatgtcaaa	20040
gaaaagagac	ttgtcaagag	gtaagagcct	tggctacaaa	tgacctgggtc	gttctgtctc	20100
attacttttc	aatctcattg	accttaactt	ttaaactata	aaacagccaa	tatttattag	20160
gcactgattt	catgccagag	acactctggg	cattgaaaga	aagtaatgat	aatagttaat	20220
tttatatagc	gttggttacca	tttcaacctt	tttttttttt	taacctctat	catctcaatt	20280
aaag						20284

<210> 22  
 <211> 7052  
 <212> DNA  
 <213> Homo sapiens

<400> 22						
gtgaacacac	attaaagcat	gagaagcatg	aactagacat	gtagccagggt	aaaggccttg	60
ctgagatggg	tggcaaaggc	ctcattgcag	cattcattgg	caggccacag	ttcttttggc	120
agctctgctt	cctgaccttt	caccctcagg	aagcgaggct	gttcacacgg	cacacacatg	180
ccagacaggg	tctctgaag	ccacggctgc	cagtgcattg	gtcccaggga	aagctttttc	240
ctttagttct	cacacaacag	agcttcttgg	aagccctccc	cggcgaagggt	gctgggtggct	300
ctgccttgct	ccgtccctga	cccgttctca	cctccttctt	tgccatcagg	aggacagtgt	360
ttctcagagc	agttctgatg	ctggcctggg	cagcgacctat	gagagtgaca	cgctgacctat	420
cggtaaggac	tctgggggtt	cttatttcagg	tgggtgcctga	gcttccccca	gctgggcaga	480

gtggaggcag	aggaggagag	gtgcagaggc	tgggtggcgt	gactcaaggt	ttgctgctgg	540
gctggggctg	ggtggctgcg	gggggtgggag	cagcttggtg	gcgggttggc	ctaagtcttg	600
ctgggggtgcc	tggggctcgg	tttgggagct	agcagggcag	tgtcccagag	agctgagatg	660
attgggggttt	ggggaatccc	ttaggggaggt	ggacactgaa	taccagggat	gaggagctga	720
gggccaagcc	aggagggtgg	gatttgagct	tagtacataa	gaagagtggg	agcccaggag	780
atgaggaaca	gccttccaga	tttttcttgg	gtagcgtgtg	taggaggcca	gtgtcaccag	840
tagcatatgt	ggaacagaag	tcttgaccct	tgttatctct	gcctagtccct	aatggctggc	900
ttttcccagg	aaggcttctg	cttccatgga	ctgttagatt	aaccctttat	ttaggtaaat	960
gagggaaacct	actttataag	cataggaaaag	ggtgaagaat	cttttaagat	tcctttactc	1020
aagttttctt	ttgaagaatc	ccagagctta	ggcaatagac	accagacttt	gagcctcagt	1080
tatccattca	cccatccacc	caccacacca	cccatccttc	catcctccca	tcctcccatt	1140
caccatcca	cccatccagc	tgtccaccca	ttctacactg	agtacctata	atgtgcctgg	1200
ctttgggtgat	acaaaggtga	ataagacata	gtcctttcct	ttgcccccaa	ccctcagacc	1260
agagatgaac	atgtggaatg	acctaaacac	ctggaacagg	tgtgggtgat	gagcggcagg	1320
cctctgatga	gaggggtgggg	gatggccagc	cctcactccg	aagcccctct	gagttgattg	1380
agccatcttt	gcattctggg	cctgcagatg	tctctgctat	ctccaacctc	atcagggaagc	1440
atgtgtctga	agcccggctg	gtggaagaca	tagggcatga	gctgacctat	gtgctgccat	1500
atgaagctgc	taaggaggga	gcctttgtgg	aactctttca	tgagattgat	gaccggctct	1560
cagacctggg	catttctagt	tatggcatct	cagagacgac	cctggaagaa	gtaagttaag	1620
tggctgactg	tcggaatata	tagcaaggcc	aaatgtccta	aggccagacc	agtagcctgc	1680
attgggagca	ggattatcat	ggagttagtc	attgagtttt	taggtcatcg	acatctgatt	1740
aatgttggcc	ccagtgaagc	atttaagatg	gtagtgggag	atagcaggaa	agaagtgttt	1800
tcctctgtac	cacagtacat	gcctgagatt	tgtgtgttga	aaccagtggg	acctaacaca	1860
tttacatccc	aaccttaaac	tcctatgcac	ttattttacc	tttaatgagc	ctctttactt	1920
aagtacagtg	kgaggaacag	cggcatcagg	atcacttggg	aacttgtttag	aaattcagca	1980
acttgggccc	agctcagacc	tactgaatca	gaatcaggag	caattctctg	gtgtgactgt	2040
gtcacagcca	ggtatcaact	ggattctcat	acataggaaa	tgacaaacgt	ttatggatgg	2100
atagtctact	tgtgccagggt	gctgagattt	gttttttgtt	ttttgatttt	tttttaataca	2160
ctgtgacctc	atttaattct	caaaaaaaga	tgaaaaaatg	aacactcagg	aatgctgaca	2220
tgagattcag	aatcaggggt	ttggggcttc	aaagtccatc	ctctctttat	ccatgtaatg	2280
cctccccctta	gagatacaac	atcacagacc	tgaaggctg	aaggggata	aaaagctgtc	2340
tggccaagtg	gtctccaagc	ttgacagtgc	agcagaatca	cctggggata	ttattaaaaa	2400
taaacatact	aaggtttggc	ttcagggcct	gtgaatcaga	atctctggag	gtgaggcctt	2460
gaagtctgta	tttctattgc	atactttgga	cacagtgggt	tatagactag	agtttgga	2520
tgattgcgct	cattcagatt	ctcttctgat	gtttgaattg	ctgccatcat	atctctagt	2580
ctctatttcc	tcctgctcat	tctgtcttgg	ataacttata	atagtactag	cctactcaaa	2640
gatttagagc	cacagtctct	aaagaagcca	cttgactcat	tcctgtagg	ttcagaataa	2700
atctctctctg	cgcagtgtct	gtcatagctt	tttttaaatt	tttttttatt	tttgatgaga	2760
ctggagtttt	gctcttattg	cccaagctgg	agtgcagtgg	tgcgattttg	gctcactgca	2820
acctccacct	cccaggttca	agcgattctc	ctgcctcagc	ctcccaagta	gctgagatta	2880
caagcatgtg	ctaccacgcc	cagctaattt	tgtattttta	gtagagatgg	gttttatcca	2940
tgttggtcag	gctggtctcg	agctccagac	ctcagggtgat	ctgcccgcct	cggcctccca	3000
aagtgtctggg	attataggcc	tgagccacag	cgtcagcca	taactttaat	ttgaaaatga	3060
ttgtctagct	tgatagctct	caccactgag	gaaatgttct	ctggcaaaaa	cggcttctct	3120
cccaggtaac	tctgagaaag	tgttattaag	aaatgtggct	tctactttct	ctgtcttaag	3180
gggctaacat	gccactcagt	aataataata	tctgtggcag	ggtgactact	ctcgtaatgt	3240
tgggtgcttat	aatgttctca	tctctctcat	ttccagata	ttcctcaagg	tggccgaaga	3300
gagtgggggtg	gatgctgaga	cctcaggtaa	ctgccttgag	ggagaatggc	acacttaaga	3360
tagtgccctc	tgttggtctt	ctcagtgcac	gagtattggt	cctttccctt	tgaattgttc	3420
tattgcattc	tcatttgtag	agtgtagggt	tgttgcatat	ggggaagggt	tgttttgttg	3480
taaataaaat	aaagtatggg	attctttcct	tgtgccttca	gatgggtacct	tgccagcaag	3540
acgaaacagg	cgggccttcg	gggacaagca	gagctgtctt	cggccgttca	ctgaagatga	3600
tgctgctgat	ccaaatgatt	ctgacataga	cccaggctctg	ttagggaag	atcaaacagt	3660
gtcctactgt	ttgaatgtga	aattctctct	catgctctca	cctgttttct	ttggatggcc	3720
tttagccaag	gtgatagatc	cctacagagt	caaagagaaa	gtgaggaaat	ggtaaaagcc	3780
acttgttctt	tgcagcatcg	tgcattgtgat	caaacctgaa	agagcctatc	catatcactt	3840
cctttaaaga	cataaagatg	gtgcctcaat	cctctgaacc	catgtattta	ttatcttttc	3900

tgcggggtcc	tagtttcttg	tatacattag	gtgtttaatt	gttgaacaaa	tattcattcg	3960
agtagatgag	tgattttgaa	agagtcagaa	aggggaattt	gctgttagag	ttaattgtac	4020
cctaagactt	agatatttga	ggctgggcat	gggtggctcat	gccagtaatc	ccagcgcttt	4080
gagaggctga	ggtaggtaga	tcacctgagg	tcaggagttt	gagaccagtc	tgaccaacaa	4140
ggtagaaacc	cgtctctact	aaatacaaaa	aattagccga	gtgtggtagg	acatgcctgt	4200
catcccagct	acttggggagg	ctgaggcagg	agaatcgctt	gaacccagga	ggcagagggt	4260
gcagtcagcc	acggttgccg	cattgcactc	cagactgggg	aacaagagtg	aaaactccat	4320
ctcaaaaaag	aaaaaaaaag	aattagatat	tttggatgag	tgtgtctttg	tgtgtttaac	4380
tgagatggag	aggagagcta	agacatcaaa	caaattattg	taagatgtaa	aagcacatca	4440
gttaggtatc	attagtttag	gacaaggatt	tctagaaaat	tttttaggaac	agaaaacttt	4500
ccagttctct	cacccctgct	caaagagtgt	atggctctta	cattatata	aactgcctga	4560
cttcatacag	tatcagtact	tagatcattt	gaaatgtgtc	cacgttttac	caaaatataa	4620
tagggtagag	agctgagatg	ctaattgcca	ttgtgtattc	tcaaataatg	caagctacgt	4680
acatggcctg	tttcatacag	tagtctataa	gaaattgatg	acttgattca	tccgaatggc	4740
tggctgtaac	acctgggttac	gcatgaacac	ctcttttcag	ttgtctcaag	acacctttct	4800
tttctgtact	tatcagacaa	ggactgaaag	gcagagactg	ctactgttag	acatttttag	4860
tcaagctttt	ccttggacat	agctttgtca	tgaagccctt	ttacttctga	gaaacttcta	4920
gcttcagaca	catgccttca	agatagttgt	tgaagacacc	agaagaagga	gcatggcaat	4980
gccgaaaaca	cctaagataa	taggtgacct	tcagtgttgg	cttcttgcag	aatccagaga	5040
gacagacttg	ctcagtggga	tggatggcaa	agggctctac	caggtgaaag	gctggaaact	5100
tacacagcaa	cagtttgtgg	cccttttgtg	gaagagactg	ctaattgcca	gacggagtcg	5160
gaaaggattt	tttgctcagg	tgagacgtgc	tgttttcgcc	agagactctg	gcttcatggg	5220
tgggctgcag	gctctgtgac	cagtgaaggc	aggatagcat	cctggccaag	atatggatgc	5280
cggagccaga	tttatctgta	tttcaatccc	agttctatct	cttgccagtt	gtgtatccgc	5340
tggcaagtta	cttctctatg	cctcaatctc	ctcatctgta	aaatggggat	aataatatta	5400
cctgcaatac	agggttggtta	cgaaaataaa	aatgaatagg	tgcttagaat	ggggcctgac	5460
attagtaagt	gcttagtttt	gtgtgtgtat	atgttatttt	tattttggag	gagaacataa	5520
aaaggacaaa	gtgtagaaaa	actggttggg	tgtattcagc	tgtcataaca	tgagagttgt	5580
tatgccccga	tgcaacttgac	atgtgaattt	attagaaaca	tgatttttct	ctgagttgat	5640
gtttaactca	aactgataga	aaagataggt	cagaataatg	ttggccaaca	gagaagactt	5700
gttagactat	tgtctgcatg	tcagtgtttg	catgctaact	tgtctagtta	gaaagggttaa	5760
attttttcac	tctataaaa	caagaaaat	agagaaaagg	tctgcagaga	gtctttcatt	5820
tgatgatgtg	gatattgtta	agagcgggag	tttggagcat	acagagctca	agttgaatcc	5880
tgactttgct	acttattggc	tatatgacct	tgggcaagct	gcttagtctc	tctgatcctc	5940
agttaccttt	gtttgttgat	gatgaccatt	gataacacaa	ccataaataa	tgacaacata	6000
gagatagttc	tcattatagt	agttgttata	cagaattatt	cactcaatgt	taattttctg	6060
cattgaaatc	ccagaacatt	agaattgggg	gcattatttg	aatctttaag	gttataagga	6120
atacatttct	cagcaataaa	tgggaaggag	tttgggttaa	cttataaagt	ataccaagt	6180
catttttttt	cagagaagat	atggtagaaa	gtcttaggag	gttgaagaag	gaattggata	6240
tttattcttt	ctgagactat	catgggagat	aatgactatg	gttgtccatg	attggagccg	6300
ttgctgtaga	gttgggtttta	ttatagtgtg	ggatttgaat	gggccatgtg	ttctcagacc	6360
tcagaataaa	aagagaaaac	tgaggccagt	ggggagcgtg	acttcacatg	ggtacacttg	6420
tgctagagac	agaaccagga	ttcaggactt	ctggctcctg	gtcctgggtt	catggcccaa	6480
tgtagtcttt	ctcagtcttc	aggaggagga	agggcaggac	ccagtgttct	gagtcaccct	6540
gaatgtgagc	actatttact	tcgtgaactt	cttggcttag	tgctctgcc	aggtggccat	6600
aacctctggc	cttgtgttg	cagagaaaag	gtttagtttt	caggctccat	tgcttcccag	6660
ctgccaagaa	tgccttgggt	cagcacagtc	ataggccctg	cattcctcat	tgccgtgctg	6720
gttggctggg	gaggtgggct	ggactcgtag	ggatttggcc	cttggccttg	tttctaacac	6780
ttgccgtttc	ctgctgtccc	cctgccccct	ccactggcctg	ggtaaagatt	gtcttgccag	6840
ctgtgtttgt	ctgcattgcc	cttgtgttca	gcctgatcgt	gccacccttt	ggcaagtacc	6900
ccagcctgga	acttcagccc	tggatgtaca	acgaacagta	cacatttgtc	aggtatgttt	6960
gtcttctaca	tcccaggagg	gggtaagatt	cgagcagacc	aaagatgttt	acgagggcca	7020
agggaaatgga	cttcagaatt	acacggtgga	at			7052

<210> 23  
 <211> 2534  
 <212> DNA

<213> Homo sapiens

<400> 23

gggaagcatt	taaaaaaaaa	aaagtatata	tatatatata	tatatatata	tgtaatgtga	60
attggcctct	ttttctctaa	gcccacattt	tcttcttaca	tagttcaggt	ttactttatt	120
ttttcctttc	cggctgctga	ccctgtattg	cccgtagtgt	tggaacatag	catgtgtttg	180
tgacctgtgc	ctgttatttt	tgtgctttct	agttgtgcat	gcaaagagta	caaagttttc	240
ttgccctttc	ttggaaaatc	ctgcttgtct	gtgccaaaagg	gataattgtg	aaagcacttt	300
tgaaatactt	aatgagttga	ttttcttcaa	attaaaaaaaa	atatataaat	gtatatgtgt	360
atgtacatgt	gtgtacacat	acacaccttt	atacatcacg	cccattttaa	acaagctcca	420
ctttggagtg	ctctacgtca	ccctgatgcc	gaatacaggg	ccagagtctg	agatccttct	480
gggtgggttc	tgtgttttgt	tcatctctgt	tttaagagcc	tgtcacagag	aaatgcttcc	540
taaaatgttt	aatttataaa	aacattttta	tctctcgatt	actggtttta	atgaattact	600
aagctggctg	cctctcatgt	acccacagca	atgatgctcc	tgaggacacg	ggaaccctgg	660
aactctttaa	cgccttcacc	aaagaccctg	gcttcgggac	ccgctgtatg	gaaggaaacc	720
caatcccgtg	agtgccactt	tagccataag	caggggttct	tgtgcttgtt	gcctgggttg	780
atttctaata	tgtgtcattt	atcaactgca	tgccacattg	tgaccgccag	catttgccct	840
ttgaattatt	attatgtttt	atttacaata	agcgaaggta	gtaaccgaac	taaattatct	900
aggaacaaac	gtttggagag	tcttctaaca	ccgyscaaa	cacgtcatta	cagacatttg	960
tttactgatt	tagaacctta	atatttaatt	taaatacgca	ctttacactt	actgatgaaa	1020
tgcttttctt	ttctttctct	cccagcccct	gtacttaagt	gcttcaatag	gctctcatta	1080
tatatgattt	ttaggttttg	cttatcagct	tcttcgcttt	tataatctga	aaagatggca	1140
tatgaatttt	tataaaaagg	gacactttct	tcttctcaaa	ttgtatatatt	ttattgtact	1200
ttccttcaaa	accccccttt	aaaaagtaag	cagtggataa	ataaattcag	tgaagcatcc	1260
atatgaccct	taagtgaagt	taggggaagg	gaggtcacca	gatcactgtg	agtgaagatg	1320
gtggagaggt	gaggatctta	tgaggccgtg	ctcaaggctg	gtagagggtg	gttagtggtt	1380
ccaggtttag	gcagaatctc	agctgaggtc	atgaaacaac	agtgatctct	gaaaaattat	1440
ggcaagggtg	gaaggtgctg	gagaattgga	gagggggcaa	acttgacttt	caagtttcaa	1500
tgggaagata	ggtgactctg	cacaccacag	aacagtgagc	atgataacct	gtttatacaa	1560
ggttctagag	cagatttcta	aatggatagc	tactgtgtgc	ttgtttgttc	tttaattagta	1620
ttggatagtt	actaaatact	tgttagtact	tagtacataa	tgggtggtaa	atcctagcag	1680
ctaataattg	ttcccaaata	accagatgac	aaggatagag	aaggacacag	acacggccta	1740
tctggatttc	atggtgcctt	tgattttcca	catgaagggt	gtgtagggaa	gatagaagca	1800
tgagatgaga	tgataatata	gttatctgga	ttcatcactg	gccagctgaa	ccatatgaac	1860
tcattggatt	atgctagctt	aggaaggctc	tgtaggagcc	agaactgggc	tgagagccag	1920
cccatagaga	caaaagaggc	ccggccctga	catcagaggg	ttcaaactat	atgtctgagc	1980
cccacctaca	gtctgccgga	ggtggttgga	aggaagagcc	tttatcctta	caattcttac	2040
tgaaattcaa	atttttaggt	tttgcaaaaa	aatggtggac	ctgaaggaaa	tttgacagga	2100
gcatgtctca	gctgtattta	aatttgtctc	agccaatccc	cttttgaatg	ttcagagtgt	2160
aagcttcagg	agggcagcgc	gtcttagtgt	gacttttctg	gtcagttcag	gtgctttaag	2220
gagacaatta	gagatcaatc	tggaaaactt	catttgaatt	tttaatacat	aagaaaacaa	2280
taagaaatag	ttaaaaatat	atattttatat	aatatatata	tgtgtgtgtg	tgtgtgtgtg	2340
tgtgtgtgtg	tatatatata	tatatatttat	ttattttatt	ttttttgaga	tgaggtctcg	2400
ctctgttgcc	caggctggag	tgcagtggct	caatcttggc	tactgccac	ctctgcctcc	2460
caggttcaag	tgattctcct	acctcagcct	cctgagtagc	tgggattaca	agcatgtgcc	2520
accacactgg	ctaa					2534

<210> 24

<211> 2841

<212> DNA

<213> Homo sapiens

<400> 24

tcttgccagt	ctctactcat	ttttcagcac	atcgagcata	agatccagac	tctttcccag	60
gcctctctca	tctggctcct	ctcctcctcc	tttatcatta	ctcttcttcg	tagcttatcc	120
tactccagcc	atgctgtctt	cctattattc	ctaaaaarta	gaaatgcatt	tcttcctagg	180
gcctttgtac	ctgcacttgc	catcgctttt	gctcagaatg	ttctttttgc	caagcttttg	240

cccagcttgt	tctccatcat	tgttatgttt	tggtgaaat	gtcttctctt	agtaggttca	300
ttctccccag	tactgtctt	tttattttgc	tttattttgg	gccatctaag	gttatcttat	360
tagtgatatt	gttggtcgtc	tcctccatgg	gcatacacct	ccatgaaggc	aggtattttc	420
accttagggc	ctcgaatata	ctggacagca	tctggcacgt	agtagatgct	caacgaatgt	480
ttgttgtgtg	agcaaatggt	tggttgattg	gattgaaactg	agttcagtat	gtaaatattt	540
agggcctctt	tgcattctat	tttacttatg	tataaaatga	tacataatga	tgatataaat	600
gatgtcacag	tgtacaaggc	tgttgtggga	tcaagcaatc	aaatgagatc	atgcttgtct	660
tttccaaatg	gtgagggaat	agatgcatgt	ttgtggttgt	tacgggaatga	tcctgtgctc	720
ctgaggcaac	agaaaggcca	ggccatctct	ggtaatccta	ctcttgctgt	cttccctttg	780
cagagacacg	ccctgccagg	caggggagga	agagtggacc	actgccccag	ttccccagac	840
catcatggac	ctcttcacga	atgggaactg	gacaatgcag	aacccttcac	ctgcatgcc	900
gtgtagcagc	gacaaaatca	agaagatgct	gcctgtgtgt	cccccagggg	caggggggct	960
gcctcctcca	caagtgaagt	actttcaggg	ggtgattggg	cagaaggggt	gcaggatggg	1020
ctggtagctt	ccgcttgga	gcaggaaatga	gtgagataatc	atgttgggag	ggtctgtttc	1080
agtctttttt	gttttttgtt	tttttttctg	aggcggagtc	ttgctctgtc	gcccaggctg	1140
gagtgtgtg	gcatgatctt	gcctcactgc	aacctccacc	tcccagggtt	aagcgattct	1200
cctgcctcag	cctcctgagt	agctgggatt	acaggcacgc	accaccatgt	ctggctaatt	1260
tttgtgtttt	tagtagagat	agggtttcgc	cgtgttggct	aggctgggtc	ggaattcctg	1320
acctcaggtg	atccaccgc	ctcgccctcc	caaagtgtctg	ggattacagg	cgtgagccac	1380
tacgcccagc	cctgtttcag	tctttaactc	gcttcttgtc	ataagaaaaa	gcatgtgagt	1440
tttgagggga	gaagggttgg	accacactgt	gcccattgct	gtcccacagc	agtaaagtca	1500
caggacagac	tgtggcaggc	ctggcttcca	atcttggtct	tgcaacaaat	gagctggtag	1560
cctttgacag	gcctgggctt	gtttcttcac	ctctgaatta	gggaggctgg	accagaaaac	1620
tcctgtggat	cttgtcaact	ctggatttct	tagagactct	gtttgggaag	gagtcctgag	1680
ccattttttt	tttcttgaga	atctcaggaa	gaggagtgtc	tatgatagct	ctctgctgct	1740
tttatcagca	accaaattgc	aggatgagga	caagcaattc	taaatgagta	cagggaactaa	1800
aagaaggctt	ggttaccact	cttgaaaata	atagctagtc	cagggtgcggg	gtggctcaca	1860
cctgtaatct	cagtattttg	ggatgccgag	gtggactgat	cacctaaagg	caggagttcg	1920
aaaccagctt	ggccaatgtg	gcgaaaccct	gtctctacta	aaaattcaaa	aatttagccag	1980
gcatggtggc	acatgcctgt	aatcccagtt	acttgggagg	ctgaagcagg	agaattgctt	2040
gaacctggga	ggtggagggtc	gcagggagcc	aaaattgcgc	cactgtactc	cagcctgagc	2100
aacacagcaa	aactccatat	caaaaaataa	aatgaataaa	ataacagcta	atctagtcac	2160
cagtataact	ccagtgaaca	gaagattttat	taggcatagt	gaatgatggg	gcttcctaaa	2220
aatctcttga	ctacaaagaa	tctcatttca	atgtttattg	tttagatgtt	cagaataaat	2280
tcttgggaaa	gaccttggct	tggtgtaagt	gaattaccag	tgccgagggc	aggggtgaacc	2340
aagtctcagt	gctggttgac	tgagggcagt	gtctgggacc	tgtagtcagg	tttccggtca	2400
cactgtggac	atggctactg	ttgtccttga	tttgttttct	gtttcaattc	ttgtctataa	2460
agaccggtat	gcttgggttt	catgtgatga	cagagaaaac	aaaacactgc	agatatcctt	2520
caggacctga	caggaagaaa	catttcggat	tatctggtga	agacgtatgt	gcagatcata	2580
gccaaaagggt	gactttttac	taaacttggc	ccctgcctta	ttattactaa	ttagaggaat	2640
taaagacctta	caaataacag	actgaaacag	tgggggaaat	gccagattat	ggcctgattc	2700
tgtctatttg	aagtttagga	tattatccca	aactagaaaa	gatgacgaga	gggactgtga	2760
acattcagtt	gtcagcttca	aggctgaggc	agcctggtct	agaatgaaaa	tagaaatgga	2820
ttcaacgtca	aattttgcca	c				2841

<210> 25  
 <211> 852  
 <212> DNA  
 <213> Homo sapiens

<400> 25						
gcatgctgga	gtgatagtga	ccatgagttt	ctaagaaaga	agcataattt	ctccatatgt	60
catccacaat	tgaaatatta	ttgttaattg	aaaaagcttc	taggccaggc	acggtggctc	120
atgcctgtaa	tcccagcact	ttaggagcca	aggcgggtgg	atcacttgag	gtcaggagtt	180
tgagaccagc	ctggccaaca	tggggaaacc	ctgtctctac	taaaaataca	aaataagctg	240
ggcgtgggtg	tgcgtgcctg	taatcccagc	tacttgggag	gctgaggcag	gagaactgct	300
tgaatctggg	aggcggagggt	tgcagtgagc	tgagttcatg	ccattgcatt	ccagcctggg	360

caacaagagc	gaaaccatct	cccaaaaagaa	aaaaaaaaga	aagaaaaaagc	ttctagtttg	420
gttacatctt	ggtctataag	gtggttttgta	aattggtttta	acccaaggcc	tggttctcat	480
ataagtaata	gggtatttat	gatggagaga	aggctggaag	aggcctgaac	acaggcttct	540
tttctctagc	acaaccctac	aaggccagct	gattctaggg	ttatttctgt	ccgttcctta	600
tatcctcagg	tggatattta	ctccttttgc	atcattagga	ataggctcag	tgctttcttt	660
gaactgattt	tttgtttctt	tgtctctgca	gcttaaagaa	caagatctgg	gtgaatgagt	720
ttaggtaagt	tgctgtcttt	ctggcacggt	tagctcaggg	ggaggatggg	gttgtaggtg	780
tgcttgatt	gaagaaaagc	ttggggattg	tttgtcactc	acacacttgt	gggtgccatc	840
tcactgtgag	ga					852

<210> 26  
 <211> 6289  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
gctttataga	gtttctgcct	agagcatcat	ggctcagtgc	ccagcagccc	ctccagaggc	60
ctctgaatat	ttgatatact	gatttccttg	aggagaatca	gaaatctcct	gcagggtgtct	120
agggatttca	agtaagtagt	gttgtgaggg	gaatacctac	ttgtactttc	cccccaaacc	180
agattcccga	ggcttcttaa	ggactcaagg	acaatttcta	ggcatttagc	acgggactaa	240
aaaggctcta	gaggaaataa	gaagcgccaa	aacctctct	ttgcactgta	tttcaaccca	300
tttgtccttc	tgggttttga	aggaacaggt	gggactgggg	acagaagagt	tcttgaagcc	360
agtttgtcca	tcatggaaaa	tgagataggt	gatgtggcta	cgtcaggggg	cccgaaggct	420
ccttgttact	gatttccgtc	ttttctctct	gccttttccc	caagggccag	gacccctgga	480
tctctgggca	gagcagacgc	aggcccctat	aatagccctc	atgctagaaa	ggagccggag	540
cctgtgtata	aggccagcgc	agcctactct	ggacagtgc	gggttcccac	tctcccaact	600
ccccatctgc	ttgcctccag	acccacattc	acacacgagc	cactgggttg	gaggagcatc	660
tgtgagatga	aacaccattc	tttctcaat	gtctcagcta	tctaactgtg	tgtgtaatca	720
ggccagggtcc	tccctgctgg	gcagaaacca	tgggagttaa	gagattgcca	acatttatta	780
gaggaagctg	acgtgtaact	tctgaggcaa	aatttagccc	tcctttgaac	aggaatttga	840
ctcagtgaac	cttgtaacaca	ctcgactgca	gtctgctgct	gatgatactg	tgcacccac	900
tgtctgggtt	ttaatgtcag	gctgttcttt	taggtatggc	ggcttttccc	tgggtgtcag	960
taataactcaa	gcacttcctc	cgagtcaaga	agttaatgat	gccatcaaac	aaatgaagaa	1020
acacctaaag	ctggccaagg	taaaatatct	atcgtaagat	gtatcagaaa	aatgggcatg	1080
tagctgctgg	gatataggag	tagttggcag	gttaaacgga	tcacctggca	gctcattggt	1140
ctgaatatgt	tggcatacag	agccgtcttt	ggcatttagc	gatttgagcc	agacaaaact	1200
gaattactta	gttgtacgtt	taaaagtgt	ggtcaaaaac	aaatccagag	gccaggagct	1260
gtggctcatg	cctgtaatcc	tagcactttg	ggaggctgaa	gcgggtggat	cacttgagggt	1320
caggagtctg	agaccagcct	ggcctacatg	acaaaacccc	gtatctacta	aaaatacaaa	1380
aaaattagct	gggcttggtg	gcacacacct	gtaatcccag	ctacttggga	ggctgaggca	1440
ggagaattgc	ttgaaccctg	taggaagagg	ttgtagttag	ccaagatcgc	accgttgcac	1500
tccagcctgg	gcaacaagag	caaaaactcca	tctcaaaaaa	caaattaaat	ccagagattt	1560
aaaagctctc	agaggctggg	cgcggtggct	tacacctgtt	atcccagcat	tttgggatgc	1620
cgaggcgggc	aaagcacaa	gtcaggagtt	tgagaccagc	ctggccaaca	tagtgaaacc	1680
ctgtctctgc	taaaaacata	gaaaaattag	ccgggcagtg	tggcgtgcgc	ctgtaatccc	1740
agctactcgg	gaggctgagg	tgagagaatt	rcttgaaccc	gggaggcggg	ggttgacagt	1800
agcccagatt	gcaccactgc	actccagcct	gggcgacaga	gcaagactcc	atctcaaaaa	1860
aagctctcag	aacaaccagg	tttacaattt	tggctcagttg	gtaaataaac	tgggtttcaa	1920
acatactttg	ctgaaayaat	cactgactaa	ataggaaatg	aatctttttt	tttttttttt	1980
taagctggca	agctgggtctg	taggacctga	taagtactca	cttcattttc	ctgtgtctca	2040
ggtttcccat	ttttagggtga	gaattaaggg	gctctgataa	aacagaccct	aggattgtgg	2100
acagcagtga	tagtcctaga	gtccacaagt	ctgcttttga	gtgatgggcc	catgtatctg	2160
gcacatctgc	aggcagagcg	tggttctggc	tcttcagatg	atgccggtgg	agcactttga	2220
ggagtccctc	ccccaccgtg	ataaccagac	attaaaatct	tggggctttg	catcccagga	2280
tttctctgtg	attccttcta	gacttgtggc	atcatggcag	catcactgct	gtagatttct	2340
agtcacttgg	ttctcaggag	ccgtttatct	aatggcttca	catttaattt	cagtgaacaa	2400
ggtagtggca	ttgtctctca	cagggccgctc	ctgttgtcca	caggttccag	attgactggt	2460



gcccccttata	tatgtgaaca	gtcacaaactg	aggcagggttt	ctgttggttta	caggacagttt	2520
ctgcagatcg	atttctcaac	agcttgggaa	gatttatgac	aggactggac	accagaaata	2580
atgtcaaggt	aaaccgctgt	ctttgttcta	gtagcttttt	gatgaacaat	aatccttatg	2640
tttctctggag	tactttcaac	tcatggtaaa	gttggcaggg	gcattcacia	cagaaaagag	2700
caaactatta	actttaccag	tgaggcagta	cgggtgtagtg	tagtgattca	gagaatttgc	2760
tttgccacca	gacataccag	gtaaccttga	ctaagttact	taacctatct	aaacctcagt	2820
tycctcatct	gtgaaatgga	gacagtaatc	atagctatatt	ccaaactggt	gtgagaattc	2880
aatgagttaa	aggtataagg	tcctcaccac	agcgccctgcc	cacatagtc	gtgatcacta	2940
tgtcctgaac	actgtaatta	cttcgccata	ttctctgatc	atagtgtttt	gccttgggtat	3000
gtgactagaa	tttctttctg	aggtttatgg	gcatggttgg	tgggtatgca	cctgcctgca	3060
ggagcccggg	ttgggggcat	taccttgtac	ctgggtatgtt	ttctttcagg	tgtggttcaa	3120
taacaagggc	tggcatgcaa	tcagctcttt	cctgaatgtc	atcaacaatg	ccattctccg	3180
ggccaacctg	caaaagggag	agaaccttag	ccattatgga	attactgctt	tcaatcatcc	3240
cctgaatctc	accaagcagc	agctctcaga	ggtggctctg	taagtgtggc	tgtgtctgta	3300
tagatggagt	ggggcaaggg	agagggttat	ggagaagggg	agaaaaatgt	gaatctcatt	3360
gtaggggaac	agctgcagag	accgttatat	tatgataaat	ctggattgat	ccaggctctg	3420
ggcagaagtg	ataagtttac	gaattggctg	gttgggcttc	ttgaactgca	gaagagaaaa	3480
tgacactgat	atgtaaaaa	cgtaacattt	agtgaattca	tataaagtga	gttcaaaaa	3540
tgttaattaa	attataattt	aattataagt	gtttaatcag	tttgatttgt	ttaaaaacca	3600
ctgttttaaa	tttgggtgaa	tatgttttta	ttagcttgta	tctttaattc	ctaaattaag	3660
ctgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gaagtttaaa	3720
gccaggatga	gctagtttaa	agtatgcagc	ctttggagtc	atacagatct	gggtttgaat	3780
ctgggtctcta	aacttttatag	atgtatgata	ttaaataagg	cagttcatgt	aaattgccaa	3840
gcccagcact	cagcacagag	ttgatatttc	acacacatta	gataaccttc	ctgtatgtgg	3900
agcatggcag	ttcctgtttc	tgtctttactc	ctacaggata	ctaataatagg	acactaggat	3960
ctttatacca	agaccccatg	taatgggctt	atgagaccat	tcttcttata	aaaatctgac	4020
agaatttttg	tatgtgttag	atcaataggc	tgacactgt	tattttcaag	ttgatttaca	4080
gccagaaata	ttaattttatt	tgagtagtta	cagagtaata	tttctgctct	catttagttt	4140
tcaagcccca	ctagtccctt	gtgtgtgaaa	atttacaact	tactgctctt	acaaggtcat	4200
gaacagtgga	ccaaagtga	tgccattaac	cactctgact	tccttcatta	gttttattgt	4260
gacagtggac	tcttttgacc	tcagtaatac	cagtttgga	tttacattgt	catattttta	4320
gacttaaaaa	tgatcatctt	aacctggaat	aaaatgtgtc	tggggaacag	atgtttttcc	4380
ttggctgtgc	ctcagatata	tctgtgtgtg	tgtacgtgtg	tgtttgtctg	tgtgtccatg	4440
tcctcactga	ttgagcccta	actgcatcaa	agacccctca	gattttcaca	cgctttttct	4500
ctccaggatg	accacatcag	tggatgtcct	tgtgtccatc	tgtgtcatct	ttgcaatgtc	4560
cttcgtccca	gccagctttg	tcgtattcct	gatccaggag	cgggtcagca	aagcaaaaca	4620
cctgcagttc	atcagtggag	tgaagcctgt	catctactgg	ctctctaatt	ttgtctggga	4680
tatggtaagg	acacaggcct	gctgtatctt	tctgatgtct	gtcagggccca	tggattgata	4740
tggataagaa	agaaagagct	ctggctatca	tcaggaaatg	ttccagctac	tctaaagatg	4800
tatgaaaaag	aaatagccag	aggcagggtga	tcactttcat	gacaccaaac	acagcattgg	4860
gtaccagagt	tcatgtcaca	ccagagggaa	aattctgtac	acaatgatga	aaattaatac	4920
cactaccact	taagttccta	tgtgacaact	ttcccaagaa	tcagagagat	acaagtcaaa	4980
actccaagtc	aatgcctcta	acttctctga	tgggttttaa	cctccagagt	cagaatgttc	5040
tttgccctac	taggaaagcc	atctgtcatt	tagaaaactc	tgtacatttt	atcagcagct	5100
tatccatcca	ttgcaaatat	tgtttttgtg	ccasccacaa	tatattgctt	ctatttggac	5160
caatatgggg	gaatttgaagg	aattctgaag	ttctaattat	atttcaactc	tactttacaa	5220
tatctccctg	aaatatatct	ccctgtaact	tctattaatt	ataagctaca	cagagcaaat	5280
ctaattcttc	ttccaccgaa	caagtcctctg	gatattttaa	aataactctc	atactctcat	5340
ttaacctgag	tattaccag	ataagatgat	atatgagaat	acaccttgta	acctccgaag	5400
cactgtacaa	atgtgagcaa	tgtgggtgga	gatgatgatg	agatctttgc	tgtttataacc	5460
aagcccctta	gactgtgtca	ctcttctgat	ccggttgtcc	ttgtatggcc	atgctgtata	5520
ttgtgaatgt	cccggtttca	aaagcaaaagc	caagaattaa	ccttgtgttc	aggctgtggg	5580
ctgaatgggt	atgggtccag	aggaggttga	tcttttagctc	acacttctat	tactgcagca	5640
caaagatttt	gcattttgga	aggagcaccg	tcttactggc	aacttagtgg	taaaccacaaa	5700
cctccatttc	acacaaatga	ttgtgaaatt	cggtgtctct	tcattctata	caaattcatt	5760
tgattttttt	gaaactaaac	tttatattta	tccatattaa	attacatggg	ttttattttt	5820
gttttatctt	gattcagtaa	ttactccttt	cagtaaacac	agactgagtg	ctgtgtgtct	5880

gacttatgcc	agggcataggt	gattcagaga	tgaagggtca	agtcacctgaa	cccatctctt	5940
gtcttcctgg	gtattatctg	tccctccctg	ctttagagct	cctgaaattt	gctagaagca	6000
tgtcttcac	taagttgttg	ataaacacat	caagtaggat	tggactgagg	cagagccctg	6060
tagtctgaag	ctgcagttct	tctagcggct	gacaagcccc	actatcactt	ccctgctggt	6120
gctttgctct	gccagctgtg	aattctcata	attgtcctat	cgtcaagtct	ttatttctgc	6180
atcttactgc	ttgatacact	gtcaggacag	actttaaaat	tattctcagt	gcgatgaaac	6240
aattctgaca	ttcatgttat	gagcagttac	ctcataaata	gattacatg		6289

<210> 27  
 <211> 4244  
 <212> DNA  
 <213> Homo sapiens

<400> 27						
aaattactct	gactgggaat	ccatcgttca	gtaagtttac	tgagtgtgac	accttggctt	60
gactgttggg	aagacagaaa	gggcatgtag	tttataaaat	cagccaaggg	gaaaatgctt	120
gtcaaaatgt	attgtcgggt	atcttgatta	atagtttatg	tggcttcatt	aattcagagt	180
tactctccaa	tatgtttatc	tgccctttct	tgtctgataa	tggtgaaaac	ttgtgtgatg	240
cattgtatat	ttgatttagg	gggtgaactg	atgtctttgt	tttactttt	agtgaatta	300
cgttgtccct	gccacactgg	tcattatcat	cttcatctgc	ttccagcaga	agtcctatgt	360
gtcctccacc	aatctgcctg	tgctagccct	tctacttttg	ctgtatgggt	aagtcacctc	420
tgagtgaggg	agctgcacag	tggataaggc	atctgggtgc	cagtgtcaga	aggagggcag	480
ggactctcag	tagacactta	tctttttgtg	tctcaacagg	tgggtcaatca	cacctctcat	540
gtacccagcc	tccttttgtg	tcaagatccc	cagcacagcc	tatgtgggtg	tcaccagcgt	600
gaacctcttc	attggcatta	atggcagcgt	ggccaccttt	gtgctggagc	tggtcaccga	660
caatgtgagt	catgcagaga	gaacactcct	gctgggatga	gcactctctg	gagccagagg	720
acagtgttta	attgtgatct	tattccactt	gtcagtggta	ttgacactgc	tgactgcctt	780
gtcctgtctt	cagagtctgt	cttccctgag	aaggcaaagc	acctttcttt	cttgcctgtg	840
cttaccattt	gctgggtcaag	ccttttcagtt	tcttttgaca	gtttttttta	cttctttctt	900
ttttcaatgt	tgctcttacc	aagagttagct	cctctgcctt	ccactttaca	catgagagct	960
gggagcagca	ttcagtccta	aggcttttac	catcacctct	cttgggtgtt	ttattgtcat	1020
ctctaagatc	aatgccttta	gccttgatca	taaccttgaa	ctctaacttc	aaattctcac	1080
ttgcctagt	gattgtctca	tttagatagt	atatagatac	cccaacctgg	atatgtccta	1140
gttttctttc	cccttggaac	ttaatgcttt	tcttgccatc	cctgtcacac	tcagtggcac	1200
taccatccac	tcggttgccc	aagctggctc	ttagagttat	cctagatgct	tgctttgctg	1260
ttgcagattt	cccacattca	actggttatg	ttgtcagttc	ttccagggtat	ggacctctaa	1320
aataaggctt	cctctccatt	ccggttgtca	ttgcctttgt	ccaaacacag	cacacaaggc	1380
cttttacagt	tgacacaactc	ttcctgtcca	taccaccac	acctttccc	agctgtaagc	1440
ttcagatgag	ttgcctccaa	ccaccatgct	cctgtaggcc	tggcttgaaa	tgcccttctt	1500
ctgtcacagg	gtctggtagt	atatcccttg	cccttcaaga	tttagctaaa	atgtgaagct	1560
ttccttacct	gctgggagg	gttctctctt	ttctctgtgc	tctcagagtc	cttagtccat	1620
gcctccagta	caacgtacat	ccacttacat	ggtaatttcc	tgtttacata	cttttctctac	1680
tcggagtggg	gtctgtttct	taataatttt	gcctctccca	tgccctagca	cagtgcaccc	1740
agcgtatagc	cccttattca	gttggtagat	atctggccac	tggtgccttg	tgggatcata	1800
agttctgatg	tatttgagaa	gaattttctaa	aattctgaca	aaatcctgaa	actcaaatat	1860
tgaccagagc	atgagcaatt	tgcttttcaa	atgctaagg	atcttttaag	gatttgcctt	1920
aattaaatct	agcctgtttc	taagctttat	tcattatttc	tcataactca	gagcatttct	1980
ccagattttc	taaagaatag	aattttattg	ctacatatca	tcagctatgc	ctgctgctat	2040
tttaattggta	tctgaattaa	aaggctctgg	ttgtccctag	agaatcaaat	tttttcttca	2100
ctcccatatt	tcagaacttg	atacattttt	aggataaacc	atgaatgaca	cccgcttctt	2160
ctccctcacc	ctcccttccc	tcccattttt	tttttttttt	tttttttagaa	gctgaataat	2220
atcaatgata	tcctgaagtc	cgtgttcttg	atcttcccac	atcttttgct	gggacgaggg	2280
ctcatcgaca	tggtgaaaaa	ccaggcaatg	gctgatgccc	tggaaagggt	tggtgagtga	2340
agcagtggct	gtaggatgct	ttaatggaga	tggcactctg	cataggcctt	ggtaccctga	2400
actttgtttt	ggaaagaagc	aggtgactaa	gcacaggatg	ttccccacc	cccatgcccc	2460
gtgacagggc	tcatgccaac	acagctgggt	gtggcatggg	ttttgtgaca	caaccatttg	2520
tctgtgtctc	tgatagcatt	gagaaaagtg	aaagggcagt	tttgaaggta	aggaaaatag	2580

tggtatttgc	ttggatccac	tggtcatgc	cactgtctgg	gttggttaga	agcactggaa	2640
aagtcaaacc	ataactttga	gaattaggtg	atcagggaa	cagaaggaaa	gatgcaaact	2700
ttggctcttt	taggcgaatc	atgtgcctgc	agatgaggtc	atttattatc	ttttacacag	2760
tctataaaat	tataatgtat	tacatctttt	tctaccttta	gaatggttaa	aaatatttct	2820
ccggtagcca	tatgattatt	attcatccat	tagataatat	agtcaaattg	gccatgttat	2880
ttactgttca	tagaagaggg	gctttttgca	acttgggcta	caaaggagat	atgtaaggaa	2940
tttaaggaat	ggttacatgg	aactagattt	aattgaatct	agtgggttaa	ttgattcact	3000
aggatatatg	ctactgaaa	gggaatctgc	ttaaagtgtc	ttctgatatt	tattattact	3060
aaaacttaga	atttattaaa	aatactgact	gtgaaaatta	cttgggtcgt	ttgccttttt	3120
aaaaggattt	ttggcatgtc	tcattaaaaa	aagaaatact	agatatcttc	agtgaagtta	3180
caaactgaat	acacattggc	tctgaaattc	tgattgatac	tgggtcataa	aaagttttcc	3240
caaactcagc	ttggaaagtg	atcactctct	tgttactctt	ttttccttgt	catgggtgat	3300
agccatttgt	gtttatttga	agatcgggtg	attttaagga	acataggccc	aaatttgagg	3360
aagggccatg	gtttttgatc	cctccattct	gaccggatct	ctgcattgtg	tctactaggg	3420
gagaatcgct	ttgtgtcacc	attatcttgg	gacttgggtg	gacgaaacct	cttcgccatg	3480
gccgtggaag	gggtgggtgt	cttcctcatt	actgttctga	tccagtacag	attcttcac	3540
aggcccaggt	gagctttttc	ttagaacccg	tggagcacct	ggttgagggg	cacagaggag	3600
gcgcacaggg	aaacactcac	caatgggggt	tgcattgaac	tgaactcaaa	atatgtgata	3660
aaactgattt	tctgatgtg	ggcatcccgc	agccccctcc	ctgcccatcc	tggagactgt	3720
ggcaagtagg	ttttataata	ctacgttaga	gactgaatct	ttgtcctgaa	aaatagtttg	3780
aaaggttcat	ttttcttgtt	ttttcccca	agacctgtaa	atgcaaagct	atctcctctg	3840
aatgatgaag	atgaagatgt	gaggcgggaa	agacagagaa	ttcttgatgg	tggaggccag	3900
aatgacatct	tagaaatcaa	ggagttagcg	aaggtgagag	agtacagggt	acaatagctc	3960
atcttcagtt	tttttcagct	ttatgtgctg	taaccagca	gtttgctgac	ttgcttaata	4020
aaagggcatg	tgttcccaaa	atgtacatct	ataccaagg	tctgtcaatt	ttattttaaa	4080
aacaccatgg	agacttctta	aagaattctt	actgagaatt	cttttgtgat	atgaattccc	4140
attctcgaat	acttttggtt	tatatgctta	catttatgtg	ttagttatta	aaacatacta	4200
atattgtata	tctagtcaaa	ctgagtagag	agataatggt	gatt		4244

<210> 28  
 <211> 5023  
 <212> DNA  
 <213> Homo sapiens

<400> 28						
ttttaaaata	cctgcaatac	atatatatgt	tgaatagatg	aaaaattatg	tagatgataa	60
tgaatgatac	ggttctaaaa	agacagggtta	aaaagtaagt	tcacttttat	tttgagcttc	120
agaatcattc	agaagccagt	cgccacaaac	gcagaccaag	gctcttggca	catcaaatat	180
gcctatggct	taggggttatt	gacaagtctt	atgttgacgt	gtatgtgggt	tatagtcctg	240
ccttccacag	ttgcttggga	gagctgtgag	tcactgaggc	ttatgaatgt	ttacattttg	300
tttggtgcag	atatatagaa	ggaagcggaa	gcctgctgtt	gacaggattt	gcgtgggcat	360
tcctcctgg	gaggtaaaga	cactttgtct	atattgcgtt	tgtccctatt	agttcagact	420
atctctaccc	aatcaagcaa	cgatgctcgt	taagaggtaa	aagtggattt	taaaggcttc	480
tgtattttatg	ccaggatgga	gcaattagtc	atcgagaaga	gagggaccct	gtatgtcaag	540
agaatgattt	cagagaatcc	aatacaattt	aagaaaaagc	atggggctgg	gcgcagtgat	600
tcactcctgt	aatcccagca	ctttgggagg	ccgagggtggg	cggactcacg	aggtcaggag	660
attgagacca	tcctggccaa	catggtgaaa	ccccatctct	actataaata	caaaaattag	720
ctgggcatag	tagtgcattc	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatt	780
gcttgaacct	aggaggggga	ggttgcccag	attgcgctgc	tgcactccag	cctgggtgaca	840
gagtggagact	catgtcaaca	acaaaaacag	aaaaagcacg	cacatctaaa	acatgctttt	900
gtgatccatt	tgggatgggtg	atgacattca	aatagttttt	taaaaataga	ttttctcctt	960
tctggttttcc	gtttgtgttc	ttttatgccc	ttttgccaga	gtaggtgggtg	caatttggtt	1020
agctggcttt	cattactgtt	tttcacacat	taactttggc	ctcaacttga	caactcaaat	1080
aatattttata	aatacagcca	cacttaaaat	ggtcccat	tgaataacat	atttaaatat	1140
ctatacgatg	tgtaaaaacc	aagaaaatat	ttgattcttc	tctgatattt	aagaattgaa	1200
ggtttgaggt	agttacgtgt	taggggcatt	tatattcatg	tttttagagt	ttgcttatac	1260
aacttaatct	ttccttttca	gtgctttggg	ctcctgggag	ttaatggggc	tggaaaatca	1320

tcaactttca	agatgttaac	aggagatacc	actgttacca	gaggagatgc	tttccttaac	1380
aaaaataggt	gagaaaagaa	gtggcttgta	ttttgctgca	aagactttgt	ttttaattta	1440
tttaaagaaa	taggttggtta	tttttgatta	cagtgggtatt	tttagagttc	ataaaaaatgt	1500
tgaaatatag	taaagggtaa	agaagcacat	aaaatcatcc	atgatttcaa	tatctagaga	1560
taatcacaa	ttacatttcc	tttcagttctc	attctcttct	tttaacagct	ttattcaggt	1620
ataatttaca	tacaatataa	tttgcttggt	ttttaagagt	ataatttagt	gatttttgggt	1680
aaattgagag	ttttgcaacc	atcaccacaa	tccagtttta	gaacttttcc	atcacccccac	1740
atctgtctta	tatacacata	taaatgtgcc	atacaattga	gatcatactg	tatgtagaat	1800
ttaaaattag	tttttattgt	taatgagtgt	attatgaata	tttcccagtg	ggttacattt	1860
cctaagatgt	ggaattttac	attgctacat	aaaatcccc	tatgtacatg	tacctataat	1920
ttatttaata	aatttccttat	aaatgttgga	cacattagtt	tccatttttc	actatgtaaa	1980
tatgtccctg	tatacatctt	ttattatttc	ctcaggaaca	attcctacaa	agtaaattgc	2040
cctctctaaa	gagcatataa	attgactgag	ccaccgttag	gccattttct	gagactgcac	2100
agggtcacaaa	gcaatctgat	ctttgggaat	acagctacat	tttataggct	tcttagataa	2160
tggtactcta	agtactttaa	atatgtgggg	cttctctggg	cttttttttt	tttgagacgg	2220
agtttcactc	ttactgcccc	ggctggagag	caatggcgcg	accttggtct	actgcaacct	2280
ccgctccca	ggttcaagcg	attctcctgc	ctcagcctcc	tgagtagctg	agattacagg	2340
tgcccgccac	aatgcctgcc	taattttttt	gtattttcag	tagagatggg	gtttcaccat	2400
gttgccaga	ctggctctga	gctcctgacc	tcaggtgatc	cacctgcctc	agcctcccaa	2460
agttctggga	ttacaggcat	gagccactgc	gcccggcttc	tctggactta	ttatgtggag	2520
agatagtaca	aggcagtggc	tttcagagtt	ttttgaccat	gaccgttggtg	ggaaatacat	2580
tttatatctc	aacctagtat	gtacacacag	acatgtagac	acatgtataa	cctaaagtgt	2640
cataaagcag	tacctactgt	tactaattgt	agtgcactct	gctatttctt	attctacctt	2700
atactgcgtc	attaaaaaag	tgctgggtcat	gacccactaa	atttatttcc	caaaccacta	2760
atgaacaatg	actcacaaat	tgaacacact	ggacaggggg	atagccaata	aaattgaaaa	2820
gagcaaggaa	attaatgtat	tcatgatctc	ctctcctgtc	tcttacattt	ttgcagtagc	2880
aatgtaaagg	aatcctaaga	gaacagacat	tctgggaata	gcaggcctag	cgctgcacaa	2940
ctgctttcct	aggcttgctc	ctagtaccaa	gctcctgacg	catatagcag	tggcagtaat	3000
aaccagccca	tagtaagggt	tgtcacaggg	actggttgta	agaactgatt	tgrttgggtat	3060
agctgtgagg	gcttgccagc	gtgtccacgt	gtgcctcaat	cctaattctg	aaaaaggctg	3120
accctggggg	tgctaattag	atacacagag	aggaatgaat	gctgccagaa	ggccaagttc	3180
atggcaatgc	cgctgtgggt	gaggtgcagt	catcagttctg	gaacgtgaac	actgaacttc	3240
tctcacatgt	gattcttcac	ttgactgggt	tcatagaacc	ccaaagccac	cccaccacca	3300
cataaattgt	gtctctaggt	tctgtgttgc	tcacactcaa	aatttctggg	ccttctcatt	3360
tggtgcatgt	gaatggtgca	tatgagtga	gtctaggatg	gggccttagc	gttaaagccc	3420
tggggtagtg	tgactgagat	tggttgtaaa	gaatgtgcag	tgggtggcat	gacctcagaa	3480
attctgaaat	gggactgcac	ctgcagactg	aagtgttcag	agagccaggg	aggtgcaagg	3540
actggggagg	gtagaggcag	gaaccctgcc	tgccaggaag	agctagcatc	ctgggggacg	3600
aaaggctgtg	ctttcaagta	gcagcagatg	tattgggtatc	tttgtaatgg	agaagcatac	3660
tttacaggaa	cattaggcca	gattgtctaa	ccagagtatc	tctacctgct	taaaatctaa	3720
gtagttttct	tgctcctttgc	agtatcttat	caaacatcca	tgaagtacat	cagaacatgg	3780
gctactgccc	tcagtttgat	gccatcacag	agctgttgac	tgggagagaa	cacgtggagt	3840
tctttgccct	tttgagagga	gtcccagaga	aagaagttgg	caaggtagctg	tgggcacctg	3900
aaagccagcc	tgtctccttt	ggcatcctga	caatatatac	cttatggctt	ttccacacgc	3960
attgacttca	ggctgttttt	cctcatgaat	gcagcagcac	aaaatgctgg	ttctttgtat	4020
ctgctttcag	ggtggaaacc	tgtaacggtg	gtggggcagg	gctgggtggg	cagagaggga	4080
gtgctgtctc	caccacacga	gtcccttctc	cctgcttttg	ctcctcacca	gttgtcaggt	4140
tatgattata	gaattctagtc	ctactcagtg	aaagaacttt	catacatgta	tgtgtaggac	4200
agcatgataa	aattcccaag	ccagaccaaa	gtcaagggtgc	tttttatcac	tgtagggttg	4260
tgagtgggcg	attcggaaac	tgggcctcgt	gaagtatgga	gaaaaaatatg	ctgggtaacta	4320
tagtggaggc	aacaaacgca	agctctctac	agccatggct	ttgatcgggc	ggcctcctgt	4380
ggtgtttctg	gtgagtataa	ctgtggatgg	aaaactgttg	ttctggcctg	agtggaaaac	4440
atgactgttc	aaaagtccta	tatgtccagg	gctgttgat	gattggcttg	tcttccccca	4500
gggacagcag	agcaaccttg	gaaaagcaga	gggaagcttc	tcccttggca	cacactgggg	4560
tggctgtacc	atgcctgcag	atgctcccaa	atagaggcac	tccaagcact	ttgtttctta	4620
gcgtgattga	ggctggatat	gtgatttgat	ctttctctgg	aacattcttt	ctaactcatct	4680
ttgtgttcat	tccctgaaaa	tgaagagtgt	ggacacagct	ttaaaatccc	caaggtagca	4740

actaggtcat	agttccttac	acacggatag	atgaaaaaca	gatcagactg	ggaagtggcc	4800
cttgaccttt	tttcttctgt	agataagagc	attgatgtta	ttacgggaag	aagcctttga	4860
ggcttttatg	tattccacct	cggtctggaa	tttgtttctg	taaggctaac	agttgcaata	4920
tactagggta	atctgagtga	gctggaatta	aaaaaaaaaa	ggaatttcac	cccaatctta	4980
tactgacttc	aatagagggt	tcagacaaaa	agttgttttg	tat		5023

<210> 29  
 <211> 5138  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(5138)  
 <223> n = a, t, c, or g

<400> 29						
ngccnngttt	aaaangaaaa	tttnnnnnnaa	attnaanntt	anngngnnnn	tttccccaga	60
aaaaacnaaa	angatttccn	ccnngggggg	nccccnnt	cnaaaaggcc	ccncttnttt	120
gngngagggg	aaagnttttt	ttggaatttt	taatttttgg	tccccaaaa	cctattattg	180
agaatttaat	tacataaaaa	agtactcaga	atatttgagt	ttcctgcac	aataagacat	240
ttataataat	gaccttggtt	acaaatgaat	ttgaaagtta	ctctaattct	ttgattcatc	300
aagaaataac	tagaatggca	agttaaaaat	taagctgttt	caaagatgct	tctgcattta	360
aaaacaaatt	tatctttgat	tttttttccc	cccagcaaat	aagacttatt	ttattccta	420
tacaggatga	accaccaca	ggcatggatc	ccaaaggccc	gcggttcttg	tggaattgtg	480
ccctaagtgt	tgtcaaggag	gggagatcag	tagtgcttac	atctcatagg	tccgtagtaa	540
agtcttgggt	tcctcactgt	gggatgtttt	aactttccaa	gtagaatatg	cgatcatttt	600
gtaaaaatta	gaaaatacag	aaaagcaaa	agtaaaacaa	ttattacctg	aaattatata	660
tgcatattct	tacaaaaatg	caagcccagt	ataaatactg	ctctttttca	cttaatatat	720
tgtaaacatt	attccaagtc	agtgcattta	ggtgtcattt	cttatagctg	gatagtattc	780
cattaggata	tactcttatt	taactattcc	cccttttgta	gacatttggg	ttatttccaa	840
cttggtcaca	attgtaaaaca	ccactacact	gaacagcatc	atccctatat	ccacatgtac	900
ttgtaacaga	atacaattcc	ctaggaagct	ggaatgctgg	aagtcattgg	gatgttctca	960
tggttacaga	gaatctctct	aaaactaaaa	cctctttctg	ttttaccgca	gtatggaaga	1020
atgtgaagct	ctttgcacta	ggatggcaat	catggtcaat	ggaaggttca	ggtgccttgg	1080
cagtgtccag	catctaaaaa	ataggtaata	aagataattt	ctttgggata	gtgcctagtg	1140
agaaggcttg	atatttattc	ttttgtgagt	atataaatgg	tgccctctaa	ataaagggaa	1200
ataaaactga	gcaaaacagt	atagtggaaa	gaatgagggc	tttgaagtcc	gaactgcatt	1260
caaattctgt	ctttaccatt	tactggttct	gtgactcttg	ggcaagttac	ttaactactg	1320
taagagttag	tttccctgga	agatctacct	cctagctttg	tgctatagat	gaaatgaaaa	1380
aaatttacat	gtgccagtac	tggtgagagc	gcaagctttg	gagtcaaaca	caaattgggtt	1440
tgcatcctgg	ccctaccaat	tatgagctct	gagccatggg	caagtgacta	actccctggg	1500
cctcagtttc	tctgtaacat	ctgtcagact	tcatgggtcc	aggtgaggat	taaaggagat	1560
catgtattta	cagcacatgg	catggtgctt	cacataaaat	aagtatttag	taaatgataa	1620
ctgggttcctt	ctctcagaaa	cttattttctg	ggcctgccag	gggcccgcct	ttttcatggc	1680
acaagttggg	ttcccagggt	tcagtattct	tttaaatagt	tttctggaga	tcctccattt	1740
gggtattttt	tcctgctttc	aggtttgagg	atggttatat	aatagttgta	cgaatagcag	1800
gggtccaaccc	ggacctgaag	cctgtccagg	atttctttgg	acttgcatct	cctggaagtg	1860
ttcyaaaaga	gaaacaccgg	aacatgctac	aataccagct	tccatcttca	ttatctttct	1920
tggtccaggat	attcagcatc	ctctcccaga	gcaaaaagcg	actccacata	gaagactact	1980
ctgtttctca	gacaacactt	gaccaagtaa	gctttgagtg	tcaaaacaga	tttactttct	2040
agggtgtgga	ttcctgcccc	gacactcccg	cccataggtc	caagagcagt	ttgtatcttg	2100
aattggtgct	tgaattcctg	atctactatt	cctagctatg	ctttttacta	aacctctctg	2160
aacctgaaaa	gggagatgat	gcctatgtac	tctataggat	tattgtgaga	atttactgta	2220
ataataacca	taaaaactac	catttagtga	gcacctacca	tgggcccaggc	attttacttg	2280
gtgcctaata	ctattttaaat	tagataaaaa	agtaccaaag	aggctctgac	acttaagaag	2340
tactcagtaa	atattttctt	ccctcttccc	tttaaatcaag	accgtatgtg	ccaaagtaaa	2400

tggatgactg	agcagttggt	gatgtagggg	tggggggcga	tatagaaagt	cagtttttgg	2460
ccgggcgtgg	tggctcatgc	ctgtaatccc	agcacttttg	gaggctgagg	agcaggcaga	2520
tcatgaggtc	aggagatcca	gataatcctg	gccaacaggg	tgaaaccccg	tctctactaa	2580
aaatacaaaa	attagctggg	catggtggtg	cgcacttgta	gtcccagcta	cttgcgaggc	2640
tgaggcagga	gaattgctcg	aaccagggag	gtggagggtta	cagtgaacca	aggtctcgcc	2700
actgcactcc	agcctgggga	cagagcaaga	ccccatttca	aggggggaaa	aaaagtctat	2760
ttttaagttg	ttattgcttt	tttcaagtat	tcttccctcc	ttcacacaca	gttttctagt	2820
taatccattt	atgtaattct	gtatgctcct	acttgacctt	atttcaacat	ctggaaaaat	2880
agaactagaa	taaagaatga	gcaagttgag	tggatattat	aaagggtccat	cttaatcttt	2940
taacaggtat	ttgtgaactt	tgccaaggac	caaagtgatg	atgaccactt	aaaagacctc	3000
tcattacaca	aaaaccagac	agtagtggac	gttgcagttc	tcacatcttt	tctacaggat	3060
gagaaagtga	aagaaagcta	tgtatgaaga	atcctgttca	tacggggtgg	ctgaaagtaa	3120
agaggaacta	gactttcctt	tgcaccatgt	gaagtgttgt	ggagaaaaga	gccagaagtt	3180
gatgtgggaa	gaagtaaact	ggatactgta	ctgatactat	tcaatgcaat	gcaattcaat	3240
gcaatgaaaa	caaaattcca	ttacaggggc	agtgcccttg	tagcctatgt	cttgtatggc	3300
tctcaagtga	aagacttgaa	tttagttttt	tacctatacc	tatgtgaaac	tctattatgg	3360
aacccaatgg	acatatgggt	ttgaactcac	actttttttt	ttttttttgt	tctgtgttat	3420
tctcattggg	gttgcaacaa	taattcatca	agtaatcatg	gccagcgatt	attgatcaaa	3480
atcaaaaggt	aatgcacatc	ctcattcact	aagccatgcc	atgcccagga	gactggtttc	3540
ccggtgacac	atccattgct	ggcaatgagt	gtgccagagt	tattagtgcc	aagtttttca	3600
gaaagtttga	agcaccatgg	tgtgtcatgc	tcacttttgt	gaaagctgct	ctgctcagag	3660
tctatcaaca	ttgaatatca	gttgacagaa	tggtgccatg	cgtggctaac	atcctgcttt	3720
gattccctct	gataagctgt	tctggtggca	gtaacatgca	acaaaaatgt	gggtgtctcc	3780
aggcacggga	aacttggttc	cattgtttata	ttgtcctatg	cttcgagcca	tgggtctaca	3840
gggtcatcct	tatgagactc	ttaaatatac	ttagatcctg	gtaagaggca	aagaatcaac	3900
agccaaactg	ctggggctgc	aactgctgaa	gccagggcat	gggattaaag	agattgtgcg	3960
ttcaaacctt	gggaagcctg	tgcccatttg	tcttgactgt	ctgctaacat	ggtacactgc	4020
atctcaagat	gtttatctga	cacaagtgtt	ttattttctg	ctttttgaat	taatctagaa	4080
aatgaaaaga	tggagttgta	ttttgacaaa	aatgtttgta	ctttttaatg	ttatttgtaa	4140
ttttaagttc	tatcagtgac	ttctgaatcc	ttagaatggc	ctctttgtag	aaccctgtgg	4200
tatagaggag	tatggccact	gcccactatt	tttattttct	tatgtaagtt	tgcataatcag	4260
tcattgactag	tgccatagaaa	gcaatgtgat	ggtcaggatc	tcattgacatt	atatttgagt	4320
ttcttttcaga	tcatttagga	tactcttaat	ctcacttcat	caatcaaata	ttttttgagt	4380
gtatgctgta	gctgaaagag	tatgtacgta	cgtataagac	tagagagata	ttaagtctca	4440
gtacacttcc	tgtgccatgt	tattcagctc	actggtttac	aaatataggt	tgtcttgtgg	4500
ttgtaggagc	ccactgtaac	aatactgggc	agcctttttt	tttttttttt	taattgcaac	4560
aatgcaaaag	ccaagaaagt	ttaagggtca	caagtctaaa	caatgaattc	ttcaacaggg	4620
aaaacagcta	gcttgaaaac	ttgctgaaaa	acacaacttg	tgtttatggc	atttagtacc	4680
ttcaaataat	tggctttgca	gatattggat	accccatata	atctgacagt	ctcaaatttt	4740
tcattctcttc	aatcactagt	caagaaaaaa	tataaaaaca	acaaatactt	ccatatggag	4800
cattttttcag	agttttctaa	cccagtctta	tttttctagt	cagtaaacad	ttgtaaaaat	4860
actgtttcac	taatacttac	tgttaactgt	cttgagagaa	aagaaaaata	tgagagaact	4920
attgtttggg	gaagttcaag	tgatctttca	atatcattac	taacttcttc	cactttttcc	4980
agaatttgaa	tattaacgct	aaagggtgaa	gacttcagat	ttcaaattaa	tctttctata	5040
ttttttaaat	ttacagaata	ttatataacc	cactgctgaa	aaagaaacaa	atgattgttt	5100
tagaagttaa	aggtcaatat	tgatttttaa	atattaag			5138

<210> 30  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
 gtgttcctgc agagggcatg

20

<210> 31  
 <211> 20

<212> DNA  
 <213> Homo sapiens  
  
 <400> 31  
 cacttccagt aacagctgac 20  
  
 <210> 32  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 32  
 ctttgcgcat gtccttcattg c 21  
  
 <210> 33  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 33  
 gacatcagcc ctcagcatct t 21  
  
 <210> 34  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 34  
 caacaagcca tggtccctc 19  
  
 <210> 35  
 <211> 18  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 35  
 catgttccct cagccagc 18  
  
 <210> 36  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 36  
 cagagctcac agcagggac 19  
  
 <210> 37  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 37  
 Cys Ser Val Arg Leu Ser Tyr Pro Pro Tyr Glu Gln His Glu Cys His  
 1 5 10 15  
 Phe Pro Asn Lys Ala  
 20  
 <210> 38

<211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 38  
 gcctgtgtgt cccc 14  
  
 <210> 39  
 <211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(14)  
 <223> n = t or c  
  
 <400> 39  
 gcctgtgngt cccc 14  
  
 <210> 40  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 40  
 aagaagatgc tgctgtgtg tccccaggg gcaggggggc tgct 45  
  
 <210> 41  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 41  
 Lys Lys Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro  
 1 5 10 15  
 <210> 42  
 <211> 15  
 <212> PRT  
 <213> Mus musculus  
  
 <400> 42  
 Lys Lys Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro  
 1 5 10 15  
 <210> 43  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 43  
 Lys Lys Met Leu Pro Val Arg Pro Pro Gly Ala Gly Gly Leu Pro  
 1 5 10 15  
 <210> 44  
 <211> 5  
 <212> PRT  
 <213> Caenorhabditis elegans



<400> 44  
 Leu Leu Gly Gly Ser  
 1 5  
 <210> 45  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 45  
 aagaagatgc tgcctgtgcg tccccaggg gcaggggggc tgcct 45  
  
 <210> 46  
 <211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 46  
 gcctacttgc agga 14  
  
 <210> 47  
 <211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 47  
 gcctacttgc ggga 14  
  
 <210> 48  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 48  
 tgggggggct tgcctactt gcaggatgtg gtggagcagg caatc 45  
  
 <210> 49  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 49  
 Trp Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile  
 1 5 10 15  
 <210> 50  
 <211> 15  
 <212> PRT  
 <213> Mus musculus  
  
 <400> 50  
 Trp Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile  
 1 5 10 15  
 <210> 51  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 51

Trp Gly Gly Phe Ala Tyr Leu Arg Asp Val Val Glu Gln Ala Ile  
 1 5 10 15

<210> 52  
 <211> 12  
 <212> PRT  
 <213> Caenorhabditis elegans

<400> 52  
 Phe Met Thr Val Gln Arg Ala Val Asp Val Ala Ile  
 1 5 10

<210> 53  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
 tgggggggct tcgcctactt gcgggatgtg gtggagcagg caatc 45

<210> 54  
 <211> 25  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(25)  
 <223> n is a, t, c, or g.

<400> 54  
 tcattcctct tgtnngcncn gnncn 25

<210> 55  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
 agtagcctca ttctctcttct tgtgagcgct ggcctgctag tggtc 45

<210> 56  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 56  
 Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val  
 1 5 10 15

<210> 57  
 <211> 15  
 <212> PRT  
 <213> Mus musculus

<400> 57  
 Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val  
 1 5 10 15

<210> 58

```

<211> 14
<212> PRT
<213> Homo sapiens

<400> 58
Ser Ser Leu Ile Pro Leu Val Ser Ala Gly Leu Leu Val Val
 1             5             10
<210> 59
<211> 15
<212> PRT
<213> Caenorhabditis elegans

<400> 59
Ile Asn Tyr Ala Lys Leu Thr Phe Ala Val Ile Val Leu Thr Ile
 1             5             10             15
<210> 60
<211> 42
<212> DNA
<213> Homo sapiens

<400> 60
agtagcctca ttcctcttgt gagcgctggc ctgctagtgg tc
42

<210> 61
<211> 25
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(25)
<223> n is a, t, c, or g.

<400> 61
tgatgaagat gananncn gn ngcga
25

<210> 62
<211> 36
<212> DNA
<213> Homo sapiens

<400> 62
aatgatgaag atgaagatgt gaggcgggaa agacag
36

<210> 63
<211> 12
<212> PRT
<213> Homo sapiens

<400> 63
Asn Asp Glu Asp Glu Asp Val Arg Arg Glu Arg Gln
 1             5             10
<210> 64
<211> 12
<212> PRT
<213> Mus musculus

```

<400> 64  
 Asn Asp Glu Asp Glu Asp Val Arg Arg Glu Arg Gln  
 1 5 10  
 <210> 65  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 65  
 Asn Asp Glu Asp Val Arg Arg Glu Arg Gln  
 1 5 10  
 <210> 66  
 <211> 15  
 <212> PRT  
 <213> Caenorhabditis elegans  
  
 <400> 66  
 Asp Glu Arg Asp Val Glu Asp Ser Asp Val Ile Ala Glu Lys Ser  
 1 5 10 15  
 <210> 67  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 67  
 aatgatgaag atgtgaggcg ggaaagacag 30  
  
 <210> 68  
 <211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 68  
 agttgtacga atag 14  
  
 <210> 69  
 <211> 14  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(14)  
 <223> n i s t o r c.  
  
 <400> 69  
 agttgtanga atag 14  
  
 <210> 70  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 70  
 ggctggatta gcagtcctca 20  
  
 <210> 71

<211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
 ggatttccca gatcccagtg 20

<210> 72  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
 gacagacttg gcatgaagca 20

<210> 73  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
 gcacttggca gtcacttctg 20

<210> 74  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
 cgtttctcca ctgtcccatt 20

<210> 75  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
 acttcaagga cccagcttcc 20

<210> 76  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 76  
 tcggtttctt gtttgtaaa ctca 24

<210> 77  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 tcccaaggct ttgagatgac 20

<210> 78  
 <211> 19

<212> DNA  
 <213> Homo sapiens  
  
 <400> 78  
 ggctccaaag cccttgtaa 19  
  
 <210> 79  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 79  
 gctgctgtga tggggatatct 20  
  
 <210> 80  
 <211> 25  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 80  
 tttgtaaatt ttgtagtgct cctca 25  
  
 <210> 81  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 81  
 tagtcagccc ttgcctccta 20  
  
 <210> 82  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 82  
 aaaggggctt ggtaagggtta 20  
  
 <210> 83  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 83  
 gatgtggtgc tccctctagc 20  
  
 <210> 84  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 84  
 caagtgagtg cttgggattg 20  
  
 <210> 85  
 <211> 21  
 <212> DNA

<213> Homo sapiens	
<400> 85	
gcaaattcaa atttctccag g	21
<210> 86	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 86	
tcaaggagga aatggacctg	20
<210> 87	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 87	
ctgaaagttc aagcgcagtg	20
<210> 88	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 88	
tgacagactga atggagcatc	20
<210> 89	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 89	
gccagggggac actgtattct	20
<210> 90	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 90	
aggtcctctg ccttcactca	20
<210> 91	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 91	
ccagtgccta cccctgctaa	20
<210> 92	
<211> 21	
<212> DNA	
<213> Homo sapiens	

<400> 92	
cacacaacag agcttccttgg a	21
<210> 93	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 93	
acctggaaca ggtgtggtgt	20
<210> 94	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 94	
gggctaacat gccactcagt a	21
<210> 95	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 95	
gtttgttgca gatggggaag	20
<210> 96	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 96	
caccagaaga aggagcatgg	20
<210> 97	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 97	
ctggactcgt agggatttgc	20
<210> 98	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 98	
gcctgtcaca gagaaatgct t	21
<210> 99	
<211> 21	
<212> DNA	
<213> Homo sapiens	



<400> 99	
ttacggaatg atcctgtgct c	21
<210> 100	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 100	
agtcaggttt ccggtcacac	20
<210> 101	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 101	
ccgttcctta taccctcagg tg	22
<210> 102	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 102	
ccttgtagac actgcactg a	21
<210> 103	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 103	
tggtgtccac aggttccaga	20
<210> 104	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 104	
tgaggtttat gggcatgggt	20
<210> 105	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 105	
atgtttttcc ttggctgtgc	20
<210> 106	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 106	

atctgccctt tcttgtctga	20
<210> 107	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 107	
agggagctgc acagtggata	20
<210> 108	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 108	
tcactcccat atttcagaac ttga	24
<210> 109	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 109	
tgtttattgg aagatcgggtg aa	22
<210> 110	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 110	
cgttagagac tgaatctttg tcctg	25
<210> 111	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 111	
agtctgcct tccacagttg	20
<210> 112	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 112	
ggtagttacg tgtaggggc a	21
<210> 113	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 113	
caggaacatt aggccagatt g	21

<210> 114	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 114	
catgtatgtg taggacagca tga	23
<210> 115	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 115	
ctgtttcaaa gatgcttctg c	21
<210> 116	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 116	
cctaggaagc tggaatgctg	20
<210> 117	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 117	
gggttcccag gggttcagtat	20
<210> 118	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 118	
cttgacctaa tttcaacatc tgg	23
<210> 119	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 119	
atccccaact caaaaccaca	20
<210> 120	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 120	
aagtccaatt tagccacgt t	21

<210> 121  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
 ccagccattc aaaattctcc 20

<210> 122  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
 ggtgcaggtc aatttccaat 20

<210> 123  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
 ccccttcacc accattacaa 20

<210> 124  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
 tgtccaagga aaagcctcac 20

<210> 125  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 aggacctctt gccagactca 20

<210> 126  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 aggagatgac acaggccaag 20

<210> 127  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
 cgcacacctc tgaagctacc 20

<210> 128

<211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 128  
 acctcactca cacctgggaa 20  
  
 <210> 129  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 129  
 gcctcctgcc tgaaccttat 20  
  
 <210> 130  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 130  
 caaaatcatg acaccaagtt gag 23  
  
 <210> 131  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 131  
 catgcacatg cacacacata 20  
  
 <210> 132  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 132  
 ccttagcccg tggtgagcta 20  
  
 <210> 133  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 133  
 tgcttttatt cagggactcc a 21  
  
 <210> 134  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 134  
 cccatgcact gcagagattc 20  
  
 <210> 135  
 <211> 19

<212> DNA	
<213> Homo sapiens	
<400> 135	
aaggcaggag acatcgctt	19
<210> 136	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 136	
gggatcagca tggtttccta	20
<210> 137	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 137	
gcttaagtcc cactcctccc	20
<210> 138	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 138	
attttcctcc gcatgtgtgt	20
<210> 139	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 139	
tcacagaagc ctagccatga	20
<210> 140	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 140	
aacagagcag ggagatggtg	20
<210> 141	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 141	
tctgcacctc tcctcctctg	20
<210> 142	
<211> 20	
<212> DNA	

<213> Homo sapiens	
<400> 142	
actggggcca acattaatca	20
<210> 143	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 143	
cttccccatc tgcaacaaac	20
<210> 144	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 144	
gctaaaggcc atccaaagaa	20
<210> 145	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 145	
tcaagtgcac ctgggcataa	20
<210> 146	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 146	
tctgaagtcc attcccttgg	20
<210> 147	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 147	
caatgtggca tgcagttgat	20
<210> 148	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 148	
gaagctacca gcccatcct	19
<210> 149	
<211> 20	
<212> DNA	
<213> Homo sapiens	

<400> 149	
catttcccc actgtttcag	20
<210> 150	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 150	
ccaaggcttt cttcaatcca	20
<210> 151	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 151	
gatccgttta acctgccaac	20
<210> 152	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 152	
atgcccctgc caactttac	19
<210> 153	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 153	
ctctgcagct gttcccctac	20
<210> 154	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 154	
tatcaatcca tggccctgac	20
<210> 155	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 155	
agagtccttg ccctccttct	20
<210> 156	
<211> 20	
<212> DNA	
<213> Homo sapiens	



<400> 156 aaggcagtca gcagtgtcaa	20
<210> 157 <211> 20 <212> DNA <213> Homo sapiens	
<400> 157 ggggaacatc ctgtgcttag	20
<210> 158 <211> 20 <212> DNA <213> Homo sapiens	
<400> 158 ccattggtga gtgtttccct	20
<210> 159 <211> 20 <212> DNA <213> Homo sapiens	
<400> 159 agtcagcaaa ctgctgggtt	20
<210> 160 <211> 20 <212> DNA <213> Homo sapiens	
<400> 160 attgctccat cctggcataa	20
<210> 161 <211> 23 <212> DNA <213> Homo sapiens	
<400> 161 tcatggatga ttttatgtgc ttc	23
<210> 162 <211> 20 <212> DNA <213> Homo sapiens	
<400> 162 gcgtgtggaa aagccataag	20
<210> 163 <211> 20 <212> DNA <213> Homo sapiens	
<400> 163	

gccaatcata caacagccct	20
<210> 164	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 164	
tgatcgcata ttctacttgg aaa	23
<210> 165	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 165	
tccctttatt ttagaggcac ca	22
<210> 166	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 166	
gatcaggaat tcaagcacca a	21
<210> 167	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 167	
tgggttccat aatagagttt caca	24
<210> 168	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 168	
tgtcagctgt tactggaagt gg	22
<210> 169	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 169	
tgtcagctgc tgctggaagt gg	22
<210> 170	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 170	
aggagctggc cgaagccaca a	21

<210> 171  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 171  
 aggagctggc tgaagccaca a 21  
  
 <210> 172  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 172  
 aatgatgccca ccaaacaat g 21  
  
 <210> 173  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 173  
 aatgatgccca tcaaacaat g 21  
  
 <210> 174  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 174  
 gaggtggctc cgatgaccac a 21  
  
 <210> 175  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 175  
 gaggtggctc tgatgaccac a 21  
  
 <210> 176  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 176  
 ttccttaaca gaaatagtat c 21  
  
 <210> 177  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 177  
 ttccttaaca aaaatagtat c 21

<210> 178  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 178  
 ggaagtgttc caaaagagaa a 21  
  
 <210> 179  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 179  
 ggaagtgttc taaaagagaa a 21  
  
 <210> 180  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 180  
 agtaaagagg gactagactt t 21  
  
 <210> 181  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 181  
 agtaaagagg aactagactt t 21  
  
 <210> 182  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 182  
 gcctacttgc aggatgtggt g 21  
  
 <210> 183  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 183  
 gcctacttgc gggatgtggt g 21  
  
 <210> 184  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 184  
 cctcattcct cttcttgtga gcg 23  
  
 <210> 185

<211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 185  
 cctcattcct cttgtgagcg 20  
  
 <210> 186  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 186  
 gcaggactac gtgggcttca c 21  
  
 <210> 187  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 187  
 gcaggactac atgggcttca c 21  
  
 <210> 188  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 188  
 aaaagtctac cgagatggga t 21  
  
 <210> 189  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 189  
 aaaagtctac tgagatggga t 21  
  
 <210> 190  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 190  
 ggccagatca cctccttcct g 21  
  
 <210> 191  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 191  
 ggccagatca tctccttcct g 21  
  
 <210> 192  
 <211> 21

<212> DNA  
 <213> Homo sapiens  
  
 <400> 192  
 acacaccaca tggatgaagc g 21  
  
 <210> 193  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 193  
 acacaccaca cggatgaagc g 21  
  
 <210> 194  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 194  
 cctggaagaa gtaagttaag t 21  
  
 <210> 195  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 195  
 cctggaagaa ctaagttaag t 21  
  
 <210> 196  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 196  
 gctgcctgtg tgtccccag g 21  
  
 <210> 197  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 197  
 gctgcctgtg cgtccccag g 21  
  
 <210> 198  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 198  
 tagccattat ggaattactg ct 22  
  
 <210> 199  
 <211> 21  
 <212> DNA

<213> Homo sapiens  
 <400> 199  
 tagccattat caattactgc t 21  
 <210> 200  
 <211> 26  
 <212> DNA  
 <213> Homo sapiens  
 <400> 200  
 gatgaagatg aagatgtgag gcggga 26  
 <210> 201  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
 <400> 201  
 gatgaagatg tgaggcggga 20  
 <210> 202  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 202  
 aatagttgta cgaatagcag g 21  
 <210> 203  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 203  
 aatagttgta tgaatagcag g 21  
 <210> 204  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 204  
 acacgctggg ggtgctggct g 21  
 <210> 205  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 205  
 acacgctggg cgtgctggct g 21  
 <210> 206  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens

<400> 206 gaccagccac ggcgtccctg	20
<210> 207 <211> 21 <212> DNA <213> Homo sapiens	
<400> 207 gaccagccac gggcgtccct g	21
<210> 208 <211> 22 <212> DNA <213> Homo sapiens	
<400> 208 cattttctta gaaaagagag gt	22
<210> 209 <211> 22 <212> DNA <213> Homo sapiens	
<400> 209 cattttctta gagaagagag gt	22
<210> 210 <211> 21 <212> DNA <213> Homo sapiens	
<400> 210 gaaaattagt atgtaaggaa g	21
<210> 211 <211> 21 <212> DNA <213> Homo sapiens	
<400> 211 gaaaattagt ctgtaaggaa g	21
<210> 212 <211> 25 <212> DNA <213> Homo sapiens	
<400> 212 cctccgcctg ccaggttcag cgatt	25
<210> 213 <211> 25 <212> DNA <213> Homo sapiens	



<400> 213 cctccgcctg ccgggttcag cgatt	25
<210> 214 <211> 25 <212> DNA <213> Homo sapiens	
<400> 214 tatgtgctga ccatgggagc ttggtt	25
<210> 215 <211> 25 <212> DNA <213> Homo sapiens	
<400> 215 tatgtgctga ccgtgggagc ttggtt	25
<210> 216 <211> 21 <212> DNA <213> Homo sapiens	
<400> 216 gtgacaccca acggagtagg g	21
<210> 217 <211> 21 <212> DNA <213> Homo sapiens	
<400> 217 gtgacaccca gcggagtagg g	21
<210> 218 <211> 21 <212> DNA <213> Homo sapiens	
<400> 218 agtatccctt gttcacgaga a	21
<210> 219 <211> 25 <212> DNA <213> Homo sapiens	
<400> 219 agtatccctc ccttggtcac gagaa	25
<210> 220 <211> 21 <212> DNA <213> Homo sapiens	
<400> 220	

ctgggttcct gtatcacaac c	21
<210> 221	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 221	
ctgggttcct atatcacaac c	21
<210> 222	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 222	
ggcctaccaa gggagaaaact g	21
<210> 223	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 223	
ggcctaccaa aggagaaaact g	21
<210> 224	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 224	
tttaaagggg gtgattagga	20
<210> 225	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 225	
tttaaagggg ttgattagga	20
<210> 226	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 226	
gaagaaattt gtttttttga tt	22
<210> 227	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 227	
gaagaaattt ttttttttga tt	22

<210> 228	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 228	
gcgggcatcc cgaggagagg g	21
<210> 229	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 229	
gcgggcatcc tgaggagagg g	21
<210> 230	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 230	
agggaggggg gctgaagatc a	21
<210> 231	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 231	
agggaggggg actgaagatc a	21
<210> 232	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 232	
aggagccaaa cgctcattgt	20
<210> 233	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 233	
aggagccaaa gcgctcattg t	21
<210> 234	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 234	
aagccactgt ttttaaccag t	21

<210> 235  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 235  
 aagccactgt atttaaccag t 21  
  
 <210> 236  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 236  
 cgtgggcttc acactcaaga t 21  
  
 <210> 237  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 237  
 cgtgggcttc ccactcaaga t 21  
  
 <210> 238  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 238  
 tcacactcaa gatcttcgct g 21  
  
 <210> 239  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 239  
 tcacactcaa catcttcgct g 21  
  
 <210> 240  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 240  
 gcagcctcac ccgctcttcc c 21  
  
 <210> 241  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 241  
 gcagcctcac tcgctcttcc c 21  
  
 <210> 242

<211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 242  
 agaagagaat atcagaaatc t 21

<210> 243  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 243  
 agaagagaat gtcagaaatc t 21

<210> 244  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 244  
 gcgcagtgcc ctgtgtcctt a 21

<210> 245  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 245  
 gcgcagtgcg ctgtgtcctt a 21

<210> 246  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 246  
 gatctaaggt tgtcattctg g 21

<210> 247  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 247  
 gatctaaggt ggtcattctg g 21

<210> 248  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 248  
 ctcttctgtt agcacagaag aga 23

<210> 249  
 <211> 23

<212> DNA  
 <213> Homo sapiens  
  
 <400> 249  
 ctcttctgtt atcacagaag aga 23  
  
 <210> 250  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 250  
 cattctaggg atcatagcca t 21  
  
 <210> 251  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 251  
 cattctaggg gtcataagcca t 21  
  
 <210> 252  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 252  
 aagtacagtg ggaggaacag cg 22  
  
 <210> 253  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 253  
 aagtacagtg tgaggaacag cg 22  
  
 <210> 254  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 254  
 attcctaataa aatagaaatg ca 22  
  
 <210> 255  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 255  
 attcctaataa agtagaaatg ca 22  
  
 <210> 256  
 <211> 21  
 <212> DNA

<213> Homo sapiens  
 <400> 256  
 ggcccctgcc ttattattac t 21  
 <210> 257  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 257  
 ggcccctgcc gtattattac t 21  
 <210> 258  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
 <400> 258  
 tgagagaatt acttgaaccc gg 22  
 <210> 259  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
 <400> 259  
 tgagagaatt gcttgaaccc gg 22  
 <210> 260  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 260  
 tttgctgaaa caatcactga c 21  
 <210> 261  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
 <400> 261  
 tttgctgaaa taatcactga c 21  
 <210> 262  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
 <400> 262  
 aacctcagtt ccctcatctg tg 22  
 <210> 263  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens

<400> 263 aacctcagtt tcctcatctg tg	22
<210> 264 <211> 21 <212> DNA <213> Homo sapiens	
<400> 264 ctggacacca gaaataatgt c	21
<210> 265 <211> 21 <212> DNA <213> Homo sapiens	
<400> 265 ctggacacca aaaataatgt c	21
<210> 266 <211> 21 <212> DNA <213> Homo sapiens	
<400> 266 tcctatgtgt cctccaccaa t	21
<210> 267 <211> 21 <212> DNA <213> Homo sapiens	
<400> 267 tcctatgtgt gctccaccaa t	21
<210> 268 <211> 21 <212> DNA <213> Homo sapiens	
<400> 268 aagaagtggc ttgtattttg c	21
<210> 269 <211> 21 <212> DNA <213> Homo sapiens	
<400> 269 aagaagtggc ctgtattttg c	21
<210> 270 <211> 23 <212> DNA <213> Homo sapiens	



<400> 270 aactgatttg attggtatag ctg	23
<210> 271 <211> 23 <212> DNA <213> Homo sapiens	
<400> 271 aactgatttg gttggtatag ctg	23
<210> 272 <211> 21 <212> DNA <213> Homo sapiens	
<400> 272 caggggtccaa cccggacctg a	21
<210> 273 <211> 21 <212> DNA <213> Homo sapiens	
<400> 273 caggggtccaa tccggacctg a	21
<210> 274 <211> 22 <212> DNA <213> Homo sapiens	
<400> 274 ttgggaggct aaggcaggag aa	22
<210> 275 <211> 22 <212> DNA <213> Homo sapiens	
<400> 275 ttgggaggct gaggcaggag aa	22
<210> 276 <211> 15 <212> DNA <213> Gallus gallus	
<400> 276 accaggggaa tctcc	15
<210> 277 <211> 15 <212> DNA <213> Gallus gallus	
<400> 277	

accagggaaa tctcc 15

<210> 278  
 <211> 45  
 <212> DNA  
 <213> Gallus gallus

<400> 278  
 cgctacccaa caccagggga atctcctggt attgttggaa acttc 45

<210> 279  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn Phe  
 1 5 10 15

<210> 280  
 <211> 15  
 <212> PRT  
 <213> Mus musculus

<400> 280  
 Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn Phe  
 1 5 10 15

<210> 281  
 <211> 15  
 <212> PRT  
 <213> Gallus gallus

<400> 281  
 Arg Tyr Pro Thr Pro Gly Glu Ser Pro Gly Ile Val Gly Asn Phe  
 1 5 10 15

<210> 282  
 <211> 15  
 <212> PRT  
 <213> Gallus gallus

<400> 282  
 Arg Tyr Pro Thr Pro Gly Lys Ser Pro Gly Ile Val Gly Asn Phe  
 1 5 10 15

<210> 283  
 <211> 45  
 <212> DNA  
 <213> Gallus gallus

<400> 283  
 cgctacccaa caccagggaa atctcctggt attgttggaa acttc 45

<210> 284  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 284  
 gcgtcagggg tggggacag 19

<210> 285  
 <211> 20  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 285  
 gcgtcagggg ttggggacag 20  
  
 <210> 286  
 <211> 17  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 286  
 ccacttcggt ctccatg 17  
  
 <210> 287  
 <211> 17  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 287  
 ccacttcgat ctccatg 17  
  
 <210> 288  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 288  
 Asn Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile  
 1 5 10 15  
 <210> 289  
 <211> 15  
 <212> PRT  
 <213> Mus musculus  
  
 <400> 289  
 Asn Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile  
 1 5 10 15  
  
 <210> 290  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 290  
 Asn Gly Gly Phe Ala Tyr Leu Arg Asp Val Val Glu Gln Ala Ile  
 1 5 10 15